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NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS 3	JUN 06	KOREPAT updated with 41,000 documents
NEWS 4	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS 5	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS 6	JUN 25	CA/CAplus and USPAT databases updated with IPC reclassification data
NEWS 7	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS 8	JUN 30	EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations
NEWS 9	JUN 30	STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in
NEWS 10	JUN 30	STN AnaVist enhanced with database content from EPFULL
NEWS 11	JUL 28	CA/CAplus patent coverage enhanced
NEWS 12	JUL 28	EPFULL enhanced with additional legal status information from the epoline Register
NEWS 13	JUL 28	IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS 14	JUL 28	STN Viewer performance improved
NEWS 15	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced
NEWS 16	AUG 13	CA/CAplus enhanced with printed Chemical Abstracts page images from 1967-1998
NEWS 17	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS 18	AUG 15	CAplus currency for Korean patents enhanced
NEWS 19	AUG 27	CAS definition of basic patents expanded to ensure comprehensive access to substance and sequence information
NEWS 20	SEP 18	Support for STN Express, Versions 6.01 and earlier, to be discontinued
NEWS 21	SEP 25	CA/CAplus current-awareness alert options enhanced to accommodate supplemental CAS indexing of exemplified prophetic substances
NEWS 22	SEP 26	WPIDS, WPINDEX, and WPIX coverage of Chinese and and Korean patents enhanced
NEWS 23	SEP 29	IFICLS enhanced with new super search field
NEWS 24	SEP 29	EMBASE and EMBAL enhanced with new search and display fields
NEWS 25	SEP 30	CAS patent coverage enhanced to include exemplified prophetic substances identified in new Japanese-language patents
NEWS 26	OCT 07	EPFULL enhanced with full implementation of EPC2000
NEWS 27	OCT 07	Multiple databases enhanced for more flexible patent number searching

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

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FILE 'HOME' ENTERED AT 16:13:42 ON 15 OCT 2008

=> file reg  
COST IN U.S. DOLLARS  
SINCE FILE ENTRY  
SESSION  
TOTAL  
0.21  
0.21  
FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 16:13:49 ON 15 OCT 2008  
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STRUCTURE FILE UPDATES: 14 OCT 2008 HIGHEST RN 1061458-09-0  
DICTIONARY FILE UPDATES: 14 OCT 2008 HIGHEST RN 1061458-09-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

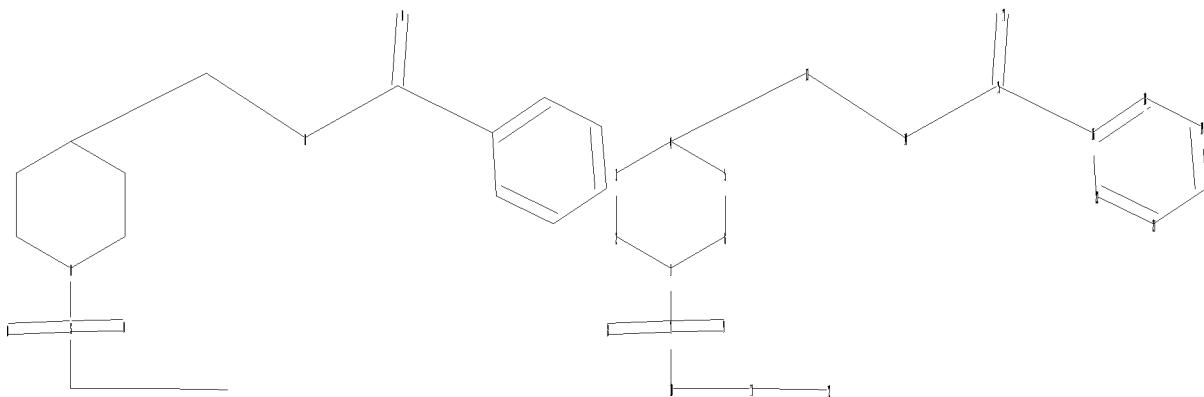
TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stnqen/stndoc/properties.html>

=>  
Uploading C:\Program Files\STNEXP\Queries\11664190s12.str



chain nodes :

7 8 9 10 11 12 13 14 15 17

ring nodes :

1 2 3 4 5 6 16 18 19 20 21 22

chain bonds :

1-7 4-13 7-8 7-9 7-10 10-11 11-12 13-14 14-15 15-16 15-17

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 16-18 16-22 18-19 19-20 20-21 21-22

exact/norm bonds :

1-2 1-6 1-7 2-3 3-4 4-5 5-6 7-8 7-9 7-10 13-14 14-15 15-17

exact bonds :

4-13 10-11 11-12 15-16

normalized bonds :

16-18 16-22 18-19 19-20 20-21 21-22

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS  
 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:Atom 17:CLASS 18:Atom  
 19:Atom 20:Atom 21:Atom 22:Atom

L1 STRUCTURE UPLOADED

=> s l1 sss sam

SAMPLE SEARCH INITIATED 16:14:05 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 30 TO ITERATE

100.0% PROCESSED 30 ITERATIONS

SEARCH TIME: 00.00.01

12 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
 BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 272 TO 928  
 PROJECTED ANSWERS: 33 TO 447

L2 12 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 16:14:11 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 532 TO ITERATE

100.0% PROCESSED 532 ITERATIONS 178 ANSWERS  
SEARCH TIME: 00.00.01

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178.36 178.57

FILE 'CAPLUS' ENTERED AT 16:14:15 ON 15 OCT 2008  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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FILE COVERS 1907 - 15 Oct 2008 VOL 149 ISS 16  
FILE LAST UPDATED: 14 Oct 2008 (20081014/ED)

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Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> s 13  
L4 11 L3

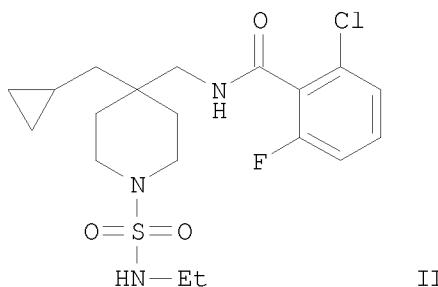
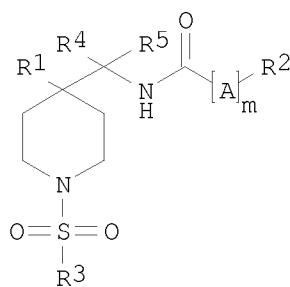
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L4 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2007:509742 CAPLUS  
DOCUMENT NUMBER: 146:500900  
TITLE: Preparation of piperidine glycine transporter  
inhibitors  
INVENTOR(S): Hallett, David; Lindsley, Craig W.; Naylor, Elizabeth  
M.; Zhao, Zhijian; Theberge, Cory R.; Wolkenberg,  
Scott E.; Nolt, Brad M.  
PATENT ASSIGNEE(S): Merck & Co., Inc., USA; Merck Sharp & Dohme Limited  
SOURCE: PCT Int. Appl., 85pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2007053400	A2	20070510	WO 2006-US41699	20061027
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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
AU 2006309050	A1	20070510	AU 2006-309050	20061027
CA 2627177	A1	20070510	CA 2006-2627177	20061027
EP 1942893	A2	20080716	EP 2006-826685	20061027
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
ORITY APPLN. INFO.:			US 2005-731010P	P 20051028
			WO 2006-US41699	W 20061027

OTHER SOURCE(S): MARPAT 146:500900  
GI



AB The title compds. I [R1 = (CH<sub>2</sub>)<sub>n</sub>R1a (wherein n = 0-6; R1a = (un)substituted alkyl, cycloalkyl, piperidinyl, etc.); R2 = (un)substituted Ph, heterocyclyl, cycloalkyl, etc.; R3 = (un)substituted alkyl, cycloalkyl, alkylcycloalkyl, etc.; R4, R5 = H, alkyl; or R4 and R5 taken together form a cycloalkyl ring; A = O, NR10 (R10 = H, alkyl, cycloalkyl, etc.); m = 0 or 1] that inhibit the glycine transporter GlyT1 and which are useful in the treatment of neurol. and psychiatric disorders associated with glycineergic or glutamatergic neurotransmission dysfunction and diseases in which the glycine transporter GlyT1 is involved, were prepared E.g., a multi-step synthesis of II, starting from tert-Bu 4-cyanopiperidine-1-carboxylate and cyclopropylmethyl bromide, was given. The exemplified compds. I had activity in inhibiting specific uptake of [<sup>14</sup>C]glycine, generally with an IC<sub>50</sub> value of less than about 10  $\mu$ M. Pharmaceutical composition comprising the compound I is disclosed.

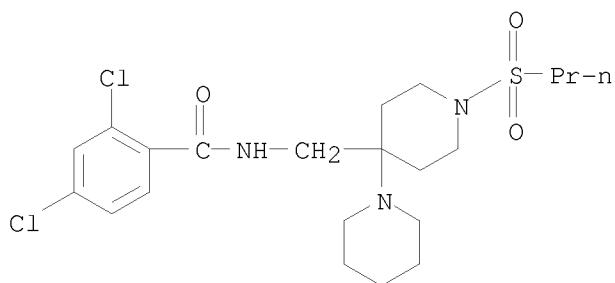
IT 936481-32-2P 936481-37-7P 936481-39-9P  
   936481-41-3P 936481-42-4P 936481-43-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of piperidine glycine transporter inhibitors)

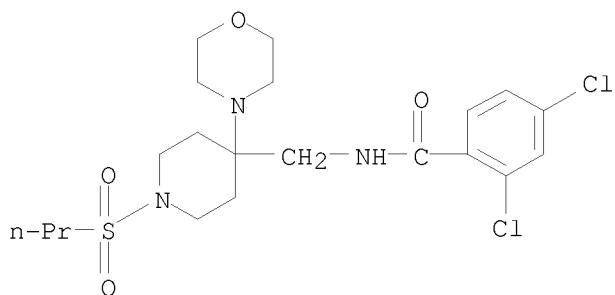
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CN Benzamide, 2,4-dichloro-N-[1'-(propylsulfonyl)[1,4'-bipiperidin]-4'-yl]methyl- (CA INDEX NAME)



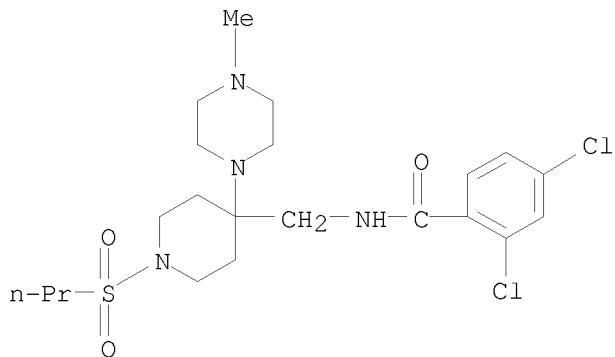
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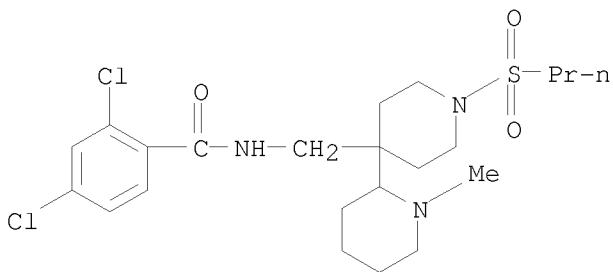
RN 936481-39-9 CAPLUS

CN Benzamide, 2,4-dichloro-N-[(4-(4-methyl-1-piperazinyl)-1-(propylsulfonyl)-4-piperidinyl)methyl]- (CA INDEX NAME)

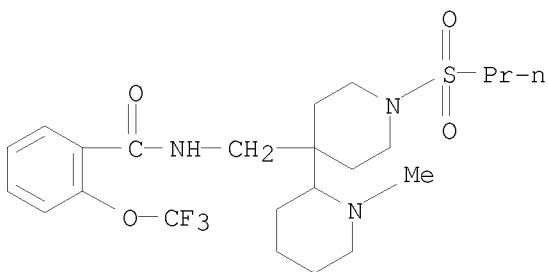


RN 936481-41-3 CAPLUS

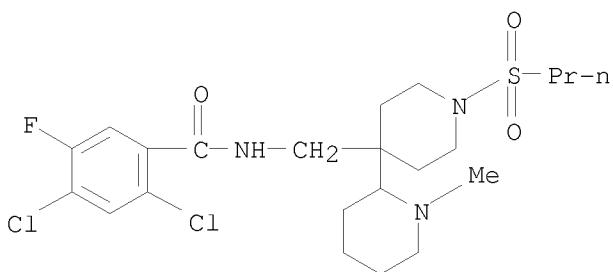
CN Benzamide, 2,4-dichloro-N-[(1-methyl-1'-(propylsulfonyl)[2,4'-bipiperidin]-4'-yl)methyl]- (CA INDEX NAME)



RN 936481-42-4 CAPLUS  
 CN Benzamide, N-[(1-methyl-1'-(propylsulfonyl)[2,4'-bipiperidin]-4'-yl)methyl]-2-(trifluoromethoxy)- (CA INDEX NAME)



RN 936481-43-5 CAPLUS  
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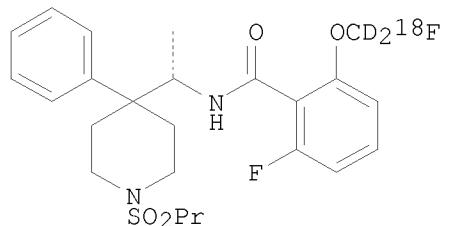
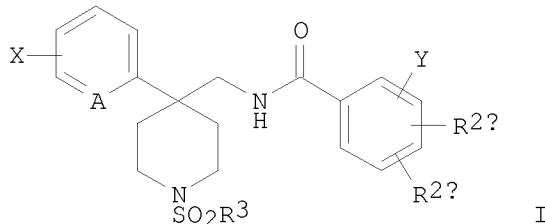


L4 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2007:410347 CAPLUS  
 DOCUMENT NUMBER: 146:421847  
 TITLE: Preparation of radiolabeled benzoic acid  
 piperidinylalkylamide GlyT1 glycine transporter  
 inhibitors for diagnostic imaging  
 INVENTOR(S): Burns, H. Donald; Hamill, Terence G.; Lindsley, Craig  
 W.  
 PATENT ASSIGNEE(S): Merck & Co., Inc., USA  
 SOURCE: PCT Int. Appl., 30pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007041025	A2	20070412	WO 2006-US36989	20060925
WO 2007041025	A3	20070830		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
EP 1942733	A2	20080716	EP 2006-815187	20060925
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
PRIORITY APPLN. INFO.:			US 2005-721782P	P 20050929
			WO 2006-US36989	W 20060925

OTHER SOURCE(S): MARPAT 146:421847  
GI



AB Title compds. (I; A = N, CH; R2a, R2b = H, F, Cl, Br; R3 = alkyl, fluoroalkyl; R4 = H, alkyl; 1 of X, Y = 18F, O11CH3, OCD218F, the other = H), were prepared. Thus, title compound (II) was prepared by treatment of the corresponding phenol derivative with a product prepared from [18F]F- and CD2Br2 in the presence of Cs2CO3 in DMF at 100°.

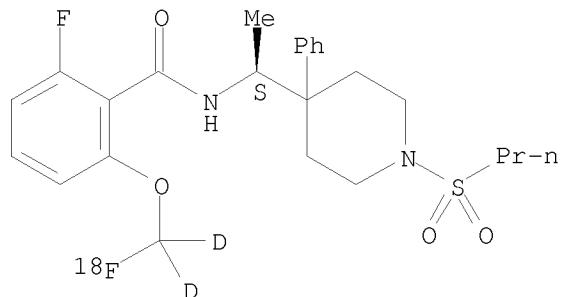
IT 934200-18-7P 934200-19-8P 934200-20-1P  
934200-21-2P  
RL: DGN (Diagnostic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of radiolabeled benzoic acid piperidinylalkylamide GlyT1 glycine transporter inhibitors for diagnostic imaging)

RN 934200-18-7 CAPLUS

CN Benzamide, 2-fluoro-6-(fluoro-18F-methoxy-d2)-N-[(1S)-1-[4-phenyl-1-

(propylsulfonyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)

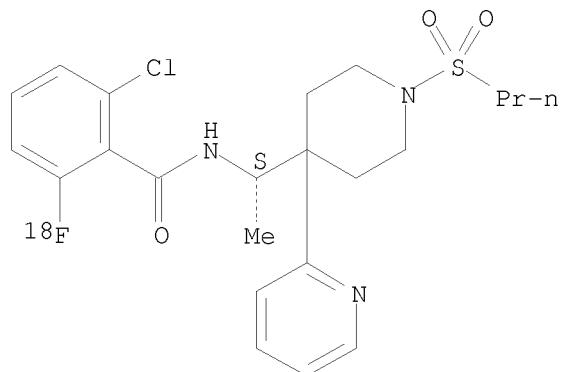
Absolute stereochemistry.



RN 934200-19-8 CAPLUS

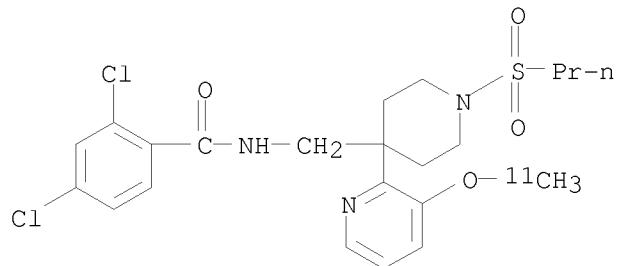
CN Benzamide, 2-chloro-6-(fluoro-18F)-N-[(1S)-1-[1-(propylsulfonyl)-4-(2-pyridinyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)

Absolute stereochemistry.



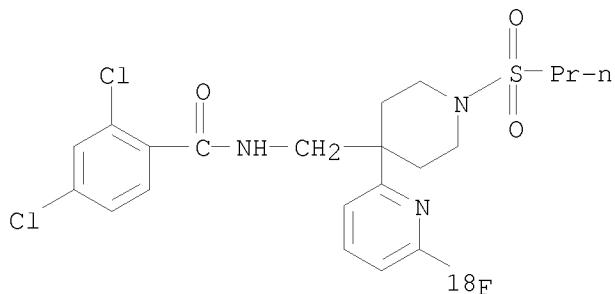
RN 934200-20-1 CAPLUS

CN Benzamide, 2,4-dichloro-N-[(4-[3-(methoxy-11C)-2-pyridinyl]-1-(propylsulfonyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



RN 934200-21-2 CAPLUS

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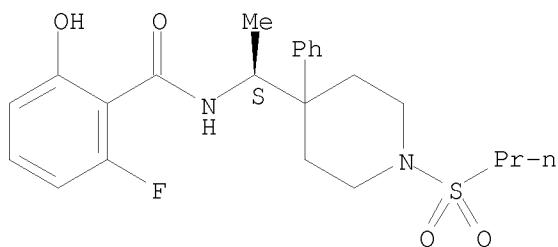
IT 934200-22-3 934200-23-4

RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of radiolabeled benzoic acid piperidinylalkylamide GlyT1  
glycine transporter inhibitors for diagnostic imaging)

RN 934200-22-3 CAPLUS

CN Benzamide, 2-fluoro-6-hydroxy-N-[(1S)-1-[4-phenyl-1-(propylsulfonyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)

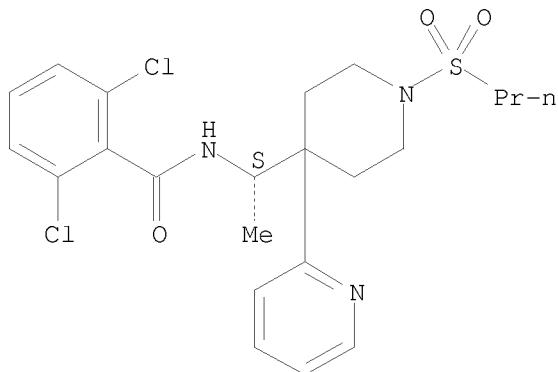
Absolute stereochemistry.



RN 934200-23-4 CAPLUS

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Absolute stereochemistry.



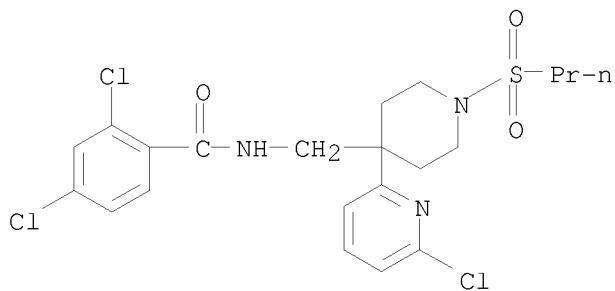
IT 866559-78-6P 866559-80-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation of radiolabeled benzoic acid piperidinylalkylamide GlyT1  
glycine transporter inhibitors for diagnostic imaging)

RN 866559-78-6 CAPLUS

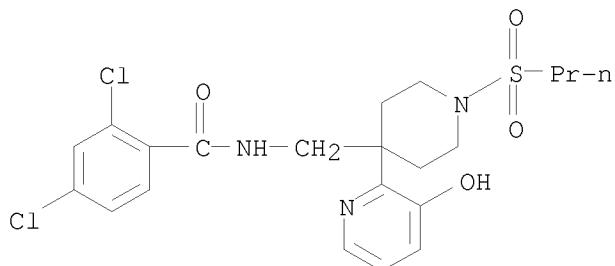
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RN 866559-80-0 CAPLUS

CN Benzamide, 2,4-dichloro-N-[(4-(3-hydroxy-2-pyridinyl)-1-(propylsulfonyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



L4 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:344575 CAPLUS

DOCUMENT NUMBER: 146:492593

TITLE: Design, synthesis, and in vivo efficacy of glycine transporter-1 (GlyT1) inhibitors derived from a series of [4-phenyl-1-(propylsulfonyl)piperidin-4-yl]methyl benzamides

AUTHOR(S): Lindsley, Craig W.; Zhao, Zhijian; Leister, William H.; O'Brien, Julie; Lemaire, Wei; Williams, David L., Jr.; Chen, Tsing-Bau; Chang, Raymond S. L.; Burno, Maryann; Jacobson, Marlene A.; Sur, Cyrille; Kinney, Gene G.; Pettibone, Douglas J.; Tiller, Philip R.; Smith, Sheri; Tsou, Nancy N.; Duggan, Mark E.; Conn, P. Jeffrey; Hartman, George D.

CORPORATE SOURCE: Department of Medicinal Chemistry, Technology Enabled Synthesis Group, Merck Research Laboratories, West Point, PA, 19486, USA

SOURCE: ChemMedChem (2006), 1(8), 807-811

CODEN: CHEMGX; ISSN: 1860-7179

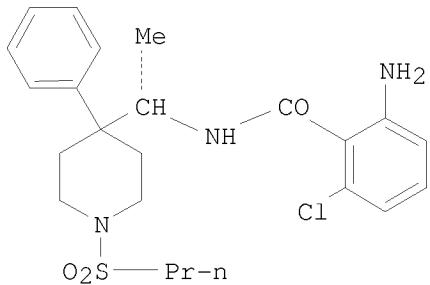
PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 146:492593

GI



I

AB An iterative analog library synthesis approach was employed to develop SAR for the title compds. Analog I was thus identified as a novel, centrally active GlyT1 inhibitor. I enhanced prepulse inhibition in a rodent behavioral model sensitive to antipsychotic treatment.

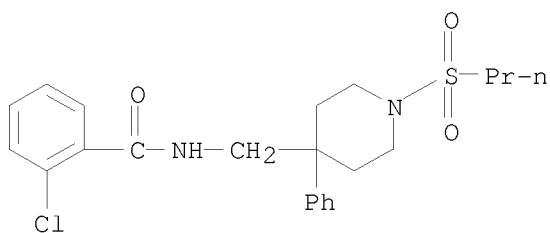
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 852029-44-8P 852029-47-1P 852029-48-2P  
 852029-50-6P 936101-97-2P 936101-98-3P  
 936101-99-4P 936102-00-0P 936102-01-1P  
 936102-02-2P 936102-03-3P 936102-04-4P  
 936102-05-5P 936102-06-6P 936102-07-7P  
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(piperidinylmethylbenzamide-derived glycine transporter-1 inhibitors)

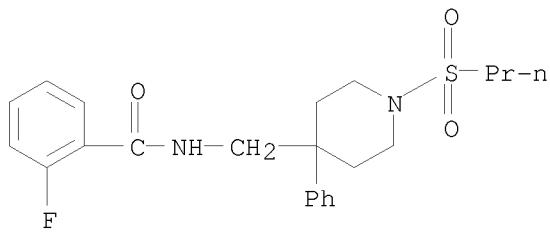
RN 852029-09-5 CAPLUS

CN Benzamide, 2-chloro-N-[(4-phenyl-1-(propylsulfonyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



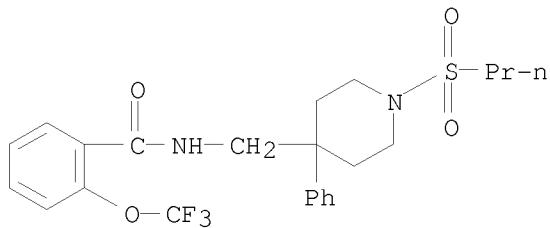
RN 852029-12-0 CAPLUS

CN Benzamide, 2-fluoro-N-[(4-phenyl-1-(propylsulfonyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



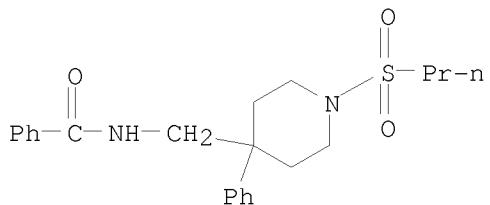
RN 852029-23-3 CAPLUS

CN Benzamide, N-[4-phenyl-1-(propylsulfonyl)-4-piperidinylmethyl]-2-(trifluoromethoxy)- (CA INDEX NAME)



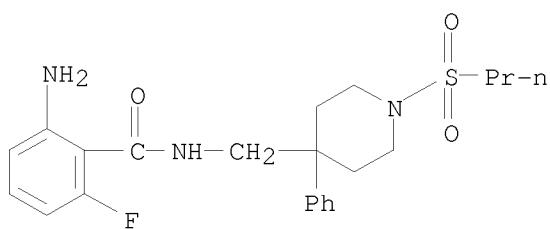
RN 852029-28-8 CAPLUS

CN Benzamide, N-[4-phenyl-1-(propylsulfonyl)-4-piperidinylmethyl]- (CA INDEX NAME)



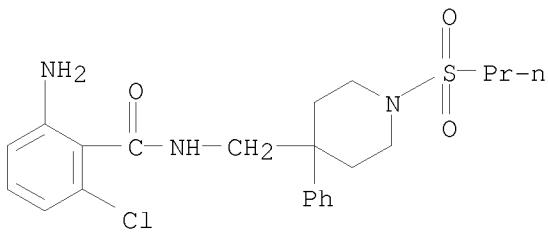
RN 852029-36-8 CAPLUS

CN Benzamide, 2-amino-6-fluoro-N-[4-phenyl-1-(propylsulfonyl)-4-piperidinylmethyl]- (CA INDEX NAME)



RN 852029-37-9 CAPLUS

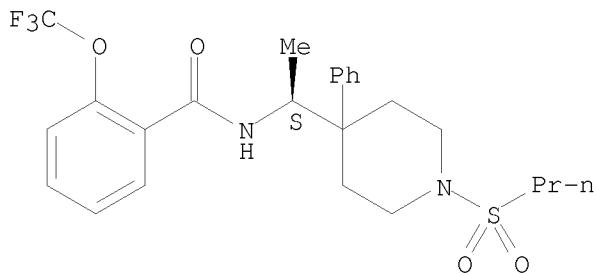
CN Benzamide, 2-amino-6-chloro-N-[4-phenyl-1-(propylsulfonyl)-4-piperidinylmethyl]- (CA INDEX NAME)



RN 852029-44-8 CAPLUS

CN Benzamide, N-[(1S)-1-[4-phenyl-1-(propylsulfonyl)-4-piperidinyl]ethyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

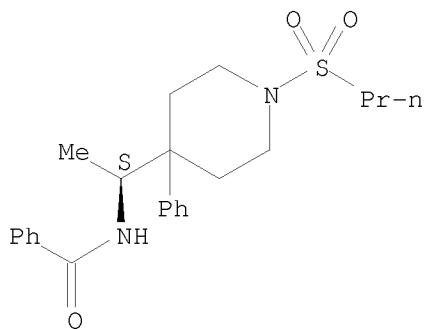
Absolute stereochemistry.



RN 852029-47-1 CAPLUS

CN Benzamide, N-[(1S)-1-[4-phenyl-1-(propylsulfonyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)

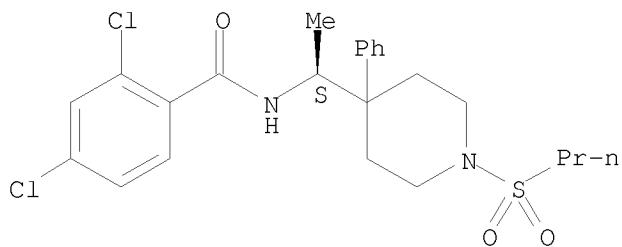
Absolute stereochemistry.



RN 852029-48-2 CAPLUS

CN Benzamide, 2,4-dichloro-N-[(1S)-1-[4-phenyl-1-(propylsulfonyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)

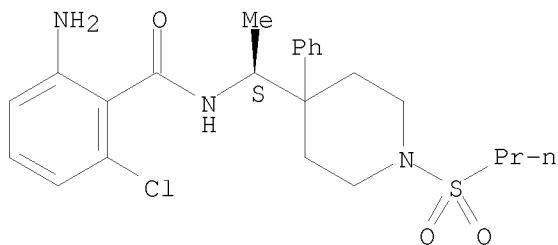
Absolute stereochemistry.



RN 852029-50-6 CAPLUS

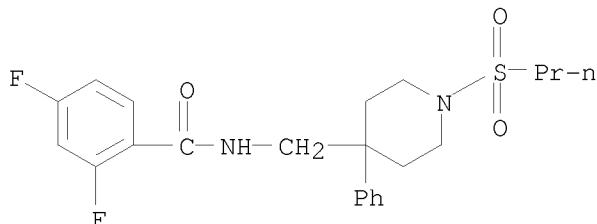
CN Benzamide, 2-amino-6-chloro-N-[(1S)-1-[4-phenyl-1-(propylsulfonyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)

Absolute stereochemistry.



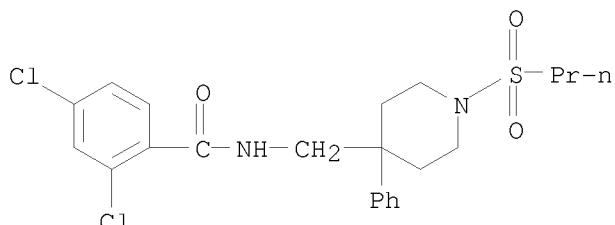
RN 936101-97-2 CAPLUS

CN Benzamide, 2,4-difluoro-N-[(4-phenyl-1-(propylsulfonyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



RN 936101-98-3 CAPLUS

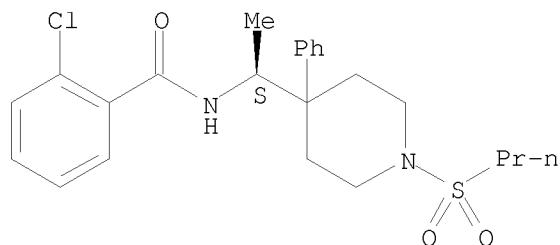
CN Benzamide, 2,4-dichloro-N-[(4-phenyl-1-(propylsulfonyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



RN 936101-99-4 CAPLUS

CN Benzamide, 2-chloro-N-[(1S)-1-[4-phenyl-1-(propylsulfonyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)

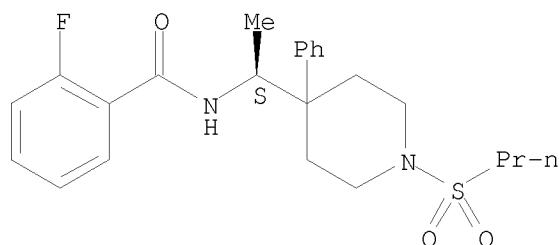
Absolute stereochemistry.



RN 936102-00-0 CAPLUS

CN Benzamide, 2-fluoro-N-[(1S)-1-[4-phenyl-1-(propylsulfonyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)

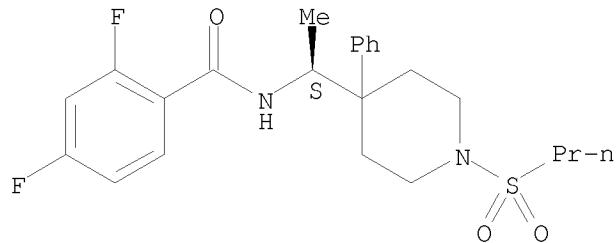
Absolute stereochemistry.



RN 936102-01-1 CAPLUS

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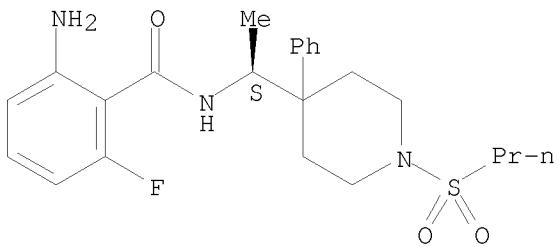
Absolute stereochemistry.



RN 936102-02-2 CAPLUS

CN Benzamide, 2-amino-6-fluoro-N-[(1S)-1-[4-phenyl-1-(propylsulfonyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)

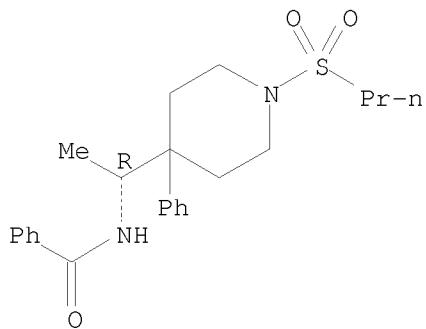
Absolute stereochemistry.



RN 936102-03-3 CAPLUS

CN Benzamide, N-[(1R)-1-[4-phenyl-1-(propylsulfonyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)

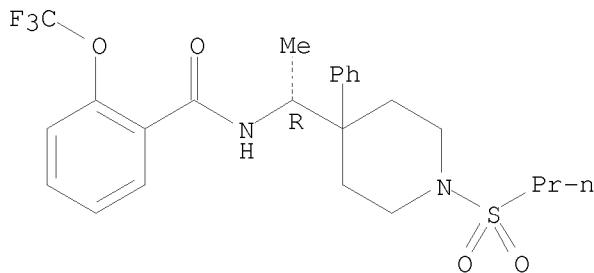
Absolute stereochemistry.



RN 936102-04-4 CAPLUS

CN Benzamide, N-[(1R)-1-[4-phenyl-1-(propylsulfonyl)-4-piperidinyl]ethyl]-2-(trifluoromethoxy)- (CA INDEX NAME)

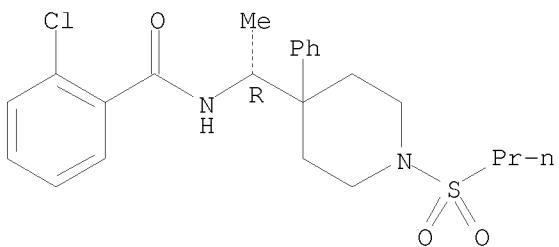
Absolute stereochemistry.



RN 936102-05-5 CAPLUS

CN Benzamide, 2-chloro-N-[(1R)-1-[4-phenyl-1-(propylsulfonyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)

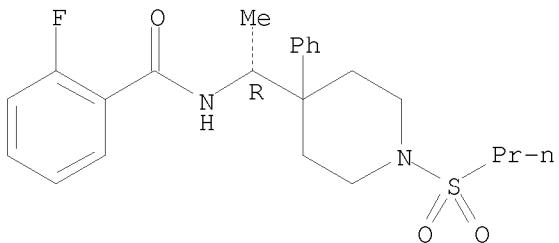
Absolute stereochemistry.



RN 936102-06-6 CAPLUS

CN Benzamide, 2-fluoro-N-[(1R)-1-[4-phenyl-1-(propylsulfonyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)

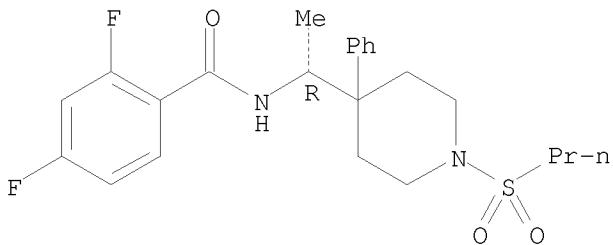
Absolute stereochemistry.



RN 936102-07-7 CAPLUS

CN Benzamide, 2,4-difluoro-N-[(1R)-1-[4-phenyl-1-(propylsulfonyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)

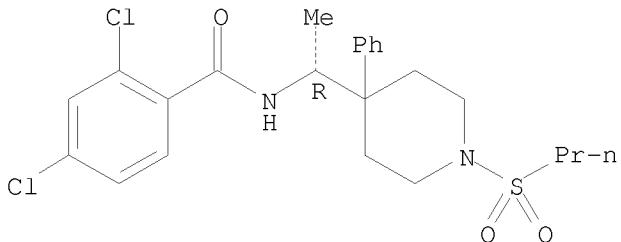
Absolute stereochemistry.



RN 936102-08-8 CAPLUS

CN Benzamide, 2,4-dichloro-N-[(1R)-1-[4-phenyl-1-(propylsulfonyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)

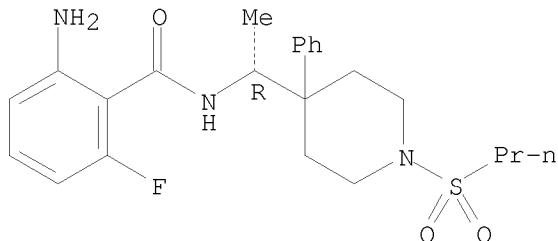
Absolute stereochemistry.



RN 936102-09-9 CAPLUS

CN Benzamide, 2-amino-6-fluoro-N-[(1R)-1-[4-phenyl-1-(propylsulfonyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)

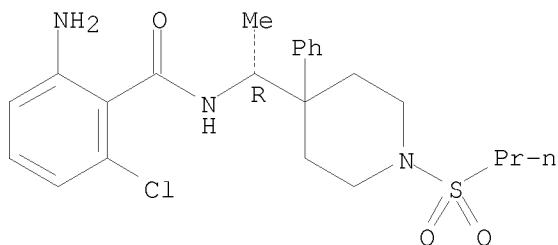
Absolute stereochemistry.



RN 936102-10-2 CAPLUS

CN Benzamide, 2-amino-6-chloro-N-[(1R)-1-[4-phenyl-1-(propylsulfonyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)

Absolute stereochemistry.



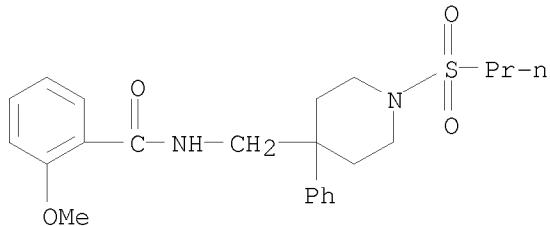
IT 266341-42-8

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(piperidinylmethylbenzamide-derived glycine transporter-1 inhibitors)

RN 266341-42-8 CAPLUS

CN Benzamide, 2-methoxy-N-[(4-phenyl-1-(propylsulfonyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



REFERENCE COUNT:

45

THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

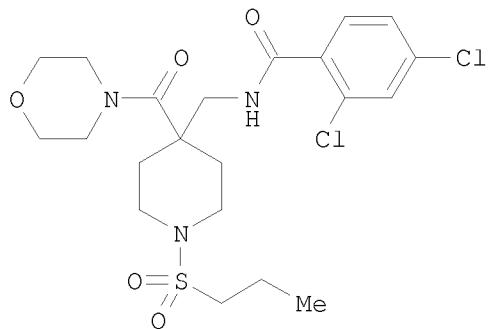
L4 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:1190066 CAPLUS

DOCUMENT NUMBER: 146:142582

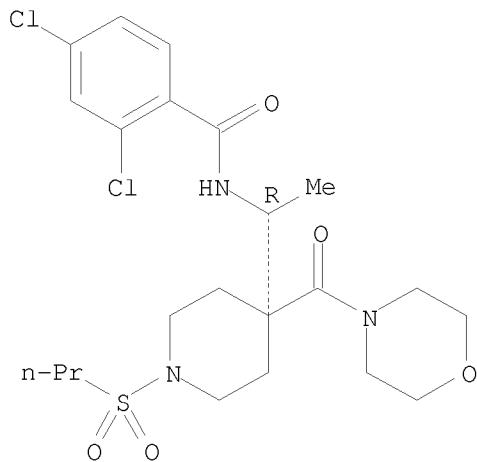
TITLE: Synthesis and SAR of GlyT1 inhibitors derived from a series of N-((4-(morpholine-4-carbonyl)-1-

AUTHOR(S): (propylsulfonyl)piperidin-4-yl)methyl)benzamides  
 Zhao, Zhijian; O'Brien, Julie A.; Lemaire, Wei;  
 Williams, David L.; Jacobson, Marlene A.; Sur,  
 Cyrille; Pettibone, Doug J.; Tiller, Philip R.; Smith,  
 Sheri; Hartman, George D.; Wolkenberg, Scott E.;  
 Lindsley, Craig W.  
 CORPORATE SOURCE: Department of Medicinal Chemistry, Merck and Co.,  
 Inc., West Point, PA, 19486, USA  
 SOURCE: Bioorganic & Medicinal Chemistry Letters (2006),  
 16(23), 5968-5972  
 CODEN: BMCLE8; ISSN: 0960-894X  
 PUBLISHER: Elsevier Ltd.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 146:142582  
 GI



AB The synthesis and SAR of potent and selective non-sarcosine-derived GlyT1  
 inhibitors is described. A library of  
 N-((4-(morpholine-4-carbonyl)-1-(propylsulfonyl)piperidin-4-  
 yl)methyl)benzamides was constructed using amidation as the key step.  
 Some compds., e.g., I, displayed promising GlyT1 inhibitory activity.  
 IT 919284-93-8P 919284-94-9P  
 RL: PAC (Pharmacological activity); PRP (Properties); PUR (Purification or  
 recovery); SPN (Synthetic preparation); BIOL (Biological study); PREP  
 (Preparation)  
 (preparation, GlyT1 inhibitory activity and SAR of  
 [morpholinecarbonyl(propylsulfonyl)piperidinylmethyl]benzamides  
 starting from N-Boc cyanopiperidine using amidation as key steps)  
 RN 919284-93-8 CAPLUS  
 CN Benzamide, 2,4-dichloro-N-[(1R)-1-[4-(4-morpholinylcarbonyl)-1-  
 (propylsulfonyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)

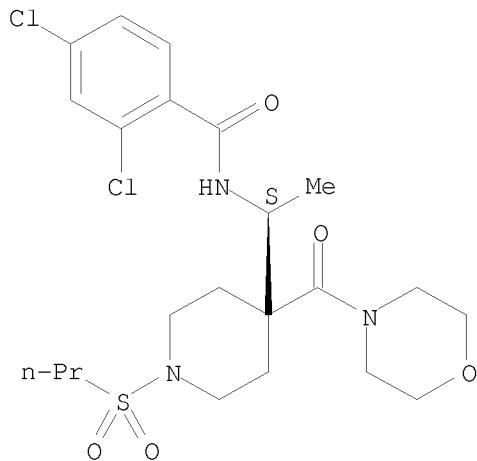
Absolute stereochemistry.



RN 919284-94-9 CAPLUS

CN Benzamide, 2,4-dichloro-N-[(1S)-1-[4-(4-morpholinylcarbonyl)-1-(propylsulfonyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)

Absolute stereochemistry.



IT 869463-15-0P 869463-16-1P 919284-71-2P

919284-72-3P 919284-73-4P 919284-74-5P

919284-75-6P 919284-76-7P 919284-77-8P

919284-80-3P 919284-81-4P 919284-82-5P

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919284-86-9P 919284-87-0P 919284-88-1P

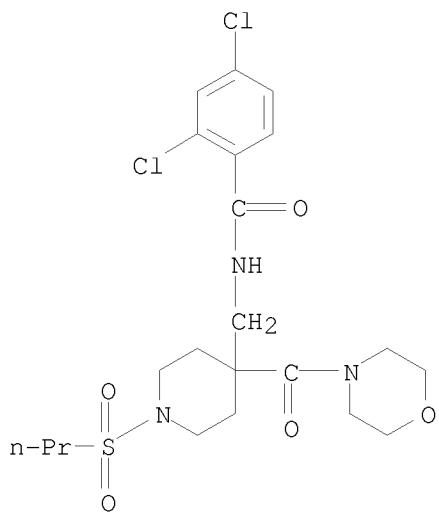
RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation, GlyT1 inhibitory activity and SAR of

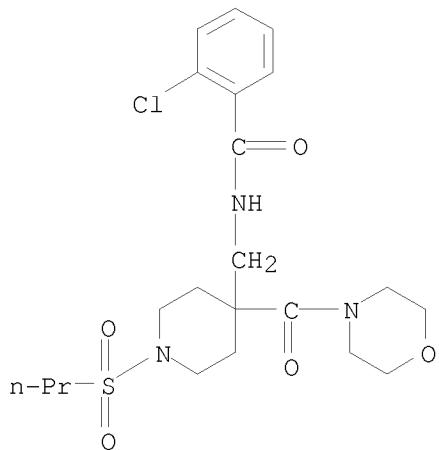
[morpholinylcarbonyl(propylsulfonyl)piperidinylmethyl]benzamides starting from N-Boc cyanopiperidine using amidation as key steps)

RN 869463-15-0 CAPLUS

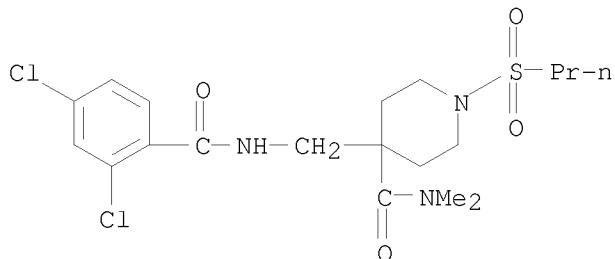
CN Benzamide, 2,4-dichloro-N-[(4-(4-morpholinylcarbonyl)-1-(propylsulfonyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



RN 869463-16-1 CAPLUS  
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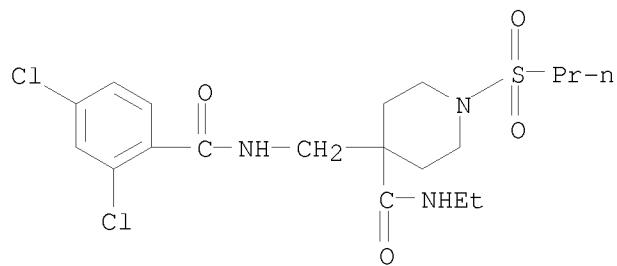


RN 919284-71-2 CAPLUS  
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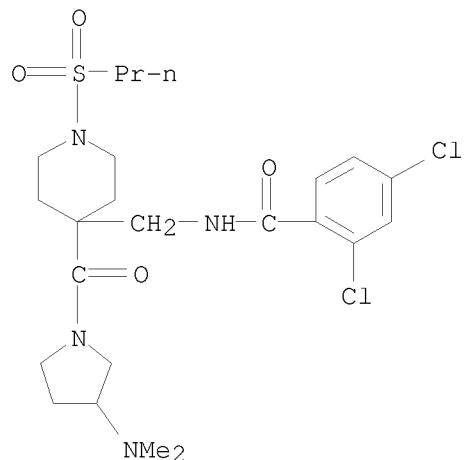
RN 919284-72-3 CAPLUS  
 CN 4-Piperidinecarboxamide, 4-[(2,4-dichlorobenzoyl)amino]methyl-N-ethyl-1-

(propylsulfonyl)- (CA INDEX NAME)



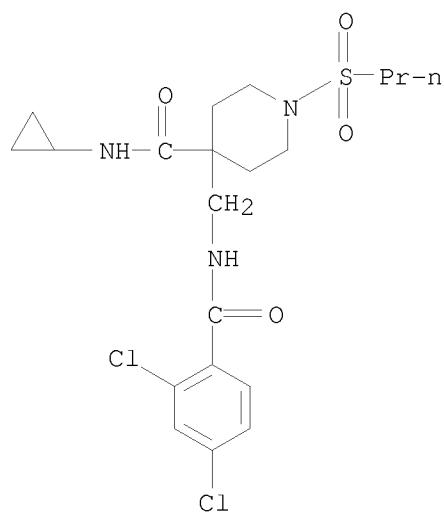
RN 919284-73-4 CAPLUS

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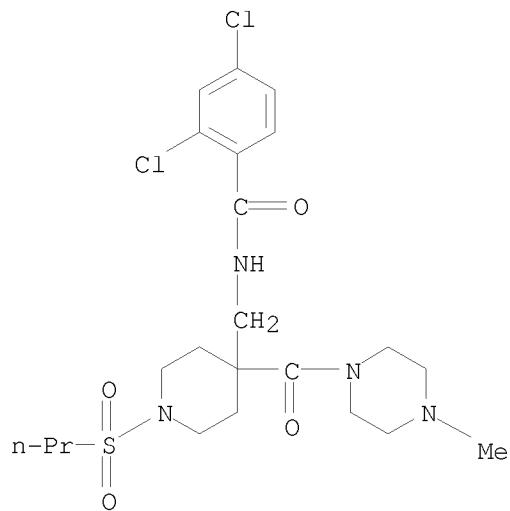


RN 919284-74-5 CAPLUS

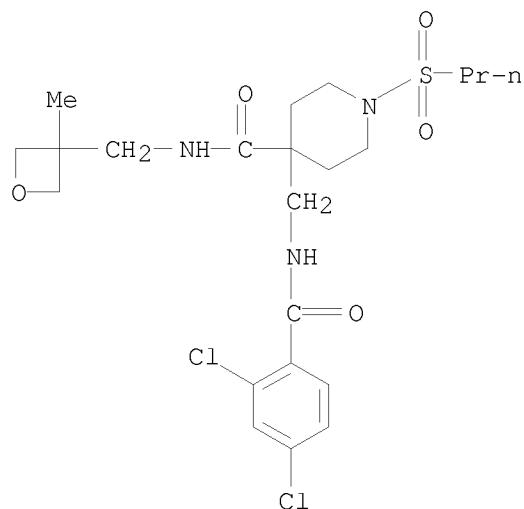
CN 4-Piperidinecarboxamide, N-cyclopropyl-4-[(2,4-dichlorobenzoyl)amino]methyl]-1-(propylsulfonyl)- (CA INDEX NAME)



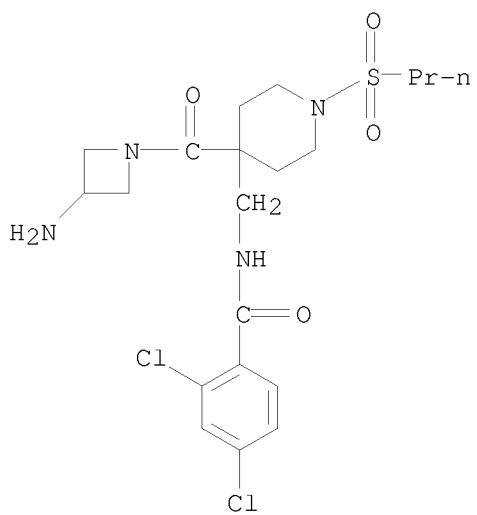
RN 919284-75-6 CAPLUS  
CN Benzamide, 2,4-dichloro-N-[[4-[(4-methyl-1-piperazinyl)carbonyl]-1-(propylsulfonyl)-4-piperidinyl]methyl]- (CA INDEX NAME)



RN 919284-76-7 CAPLUS  
CN 4-Piperidinecarboxamide, 4-[[[(2,4-dichlorobenzoyl)amino]methyl]-N-[(3-methyl-3-oxetanyl)methyl]-1-(propylsulfonyl)- (CA INDEX NAME)

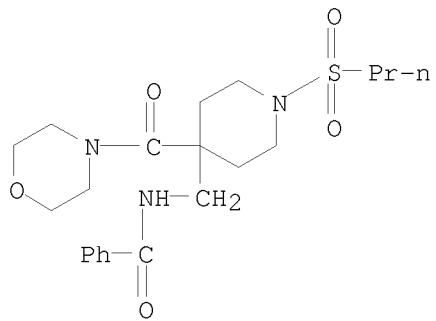


RN 919284-77-8 CAPLUS  
CN Benzamide, N-[[4-[(3-amino-1-azetidinyl)carbonyl]-1-(propylsulfonyl)-4-piperidinyl]methyl]-2,4-dichloro- (CA INDEX NAME)



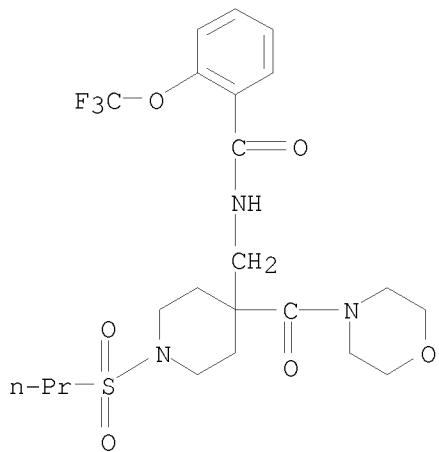
RN 919284-80-3 CAPLUS

CN Benzamide, N-[4-(4-morpholinylcarbonyl)-1-(propylsulfonyl)-4-piperidinyl]methyl- (CA INDEX NAME)

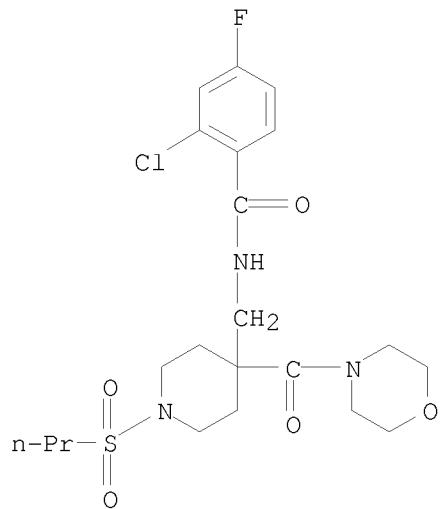


RN 919284-81-4 CAPLUS

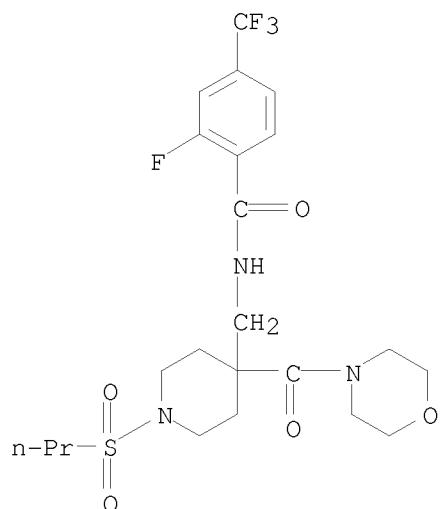
CN Benzamide, N-[4-(4-morpholinylcarbonyl)-1-(propylsulfonyl)-4-piperidinyl]methyl-2-(trifluoromethoxy)- (CA INDEX NAME)



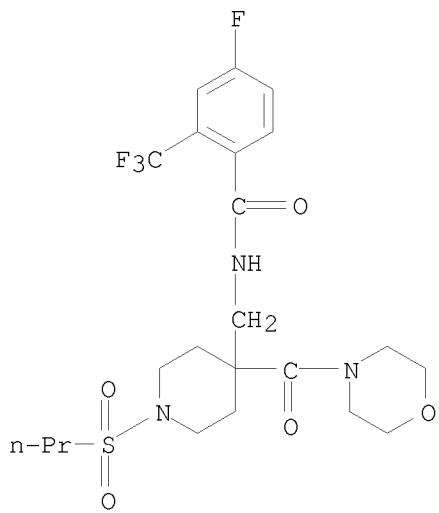
RN 919284-82-5 CAPLUS  
CN Benzamide, 2-chloro-4-fluoro-N-[(4-(4-morpholinylcarbonyl)-1-(propylsulfonyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



RN 919284-83-6 CAPLUS  
CN Benzamide, 2-fluoro-N-[(4-(4-morpholinylcarbonyl)-1-(propylsulfonyl)-4-piperidinyl)methyl]-4-(trifluoromethyl)- (CA INDEX NAME)

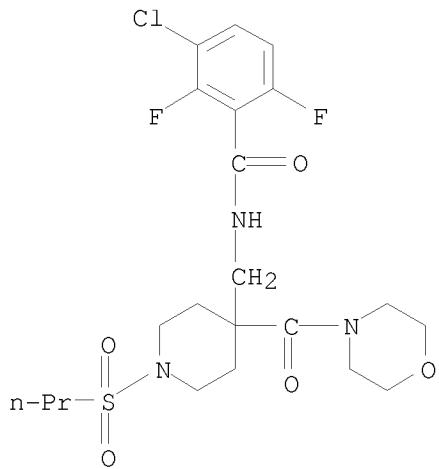


RN 919284-84-7 CAPLUS  
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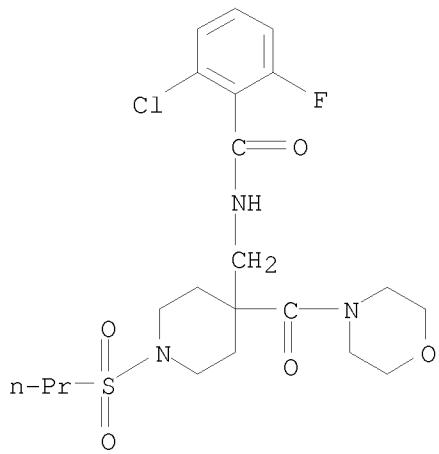
RN 919284-85-8 CAPLUS

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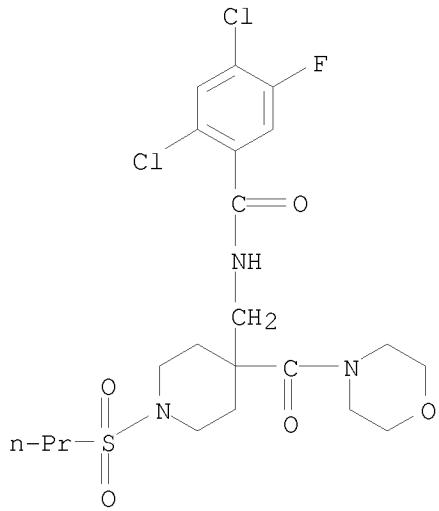
RN 919284-86-9 CAPLUS

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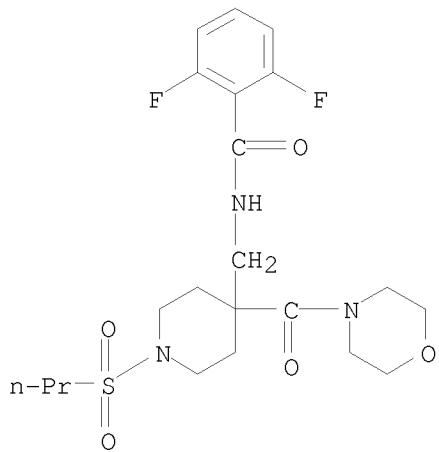
RN 919284-87-0 CAPLUS

CN Benzamide, 2,4-dichloro-5-fluoro-N-[4-(4-morpholinylcarbonyl)-1-(propylsulfonyl)-4-piperidinyl]methyl- (CA INDEX NAME)



RN 919284-88-1 CAPLUS

CN Benzamide, 2,6-difluoro-N-[4-(4-morpholinylcarbonyl)-1-(propylsulfonyl)-4-piperidinyl]methyl- (CA INDEX NAME)



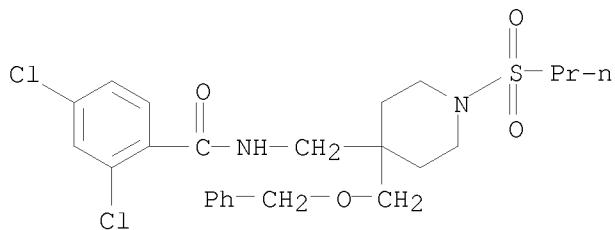
IT 919284-68-7P 919284-69-8P 919284-70-1P  
 919284-90-5P 919284-91-6P 919284-92-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation, GlyT1 inhibitory activity and SAR of  
 [morpholinecarbonyl(propylsulfonyl)piperidinylmethyl]benzamides  
 starting from N-Boc cyanopiperidine using amidation as key steps)

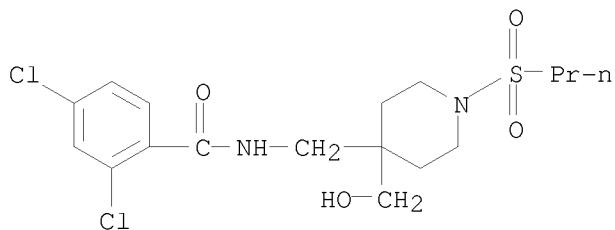
RN 919284-68-7 CAPLUS

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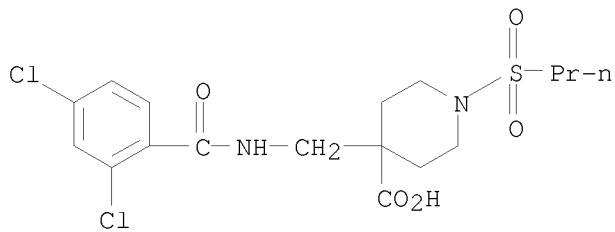
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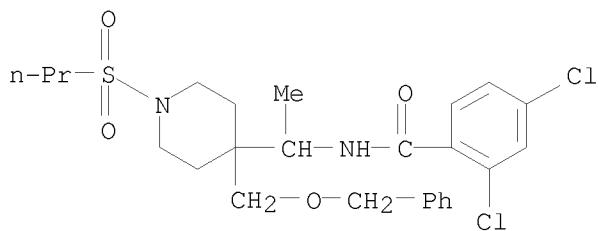


RN 919284-70-1 CAPLUS

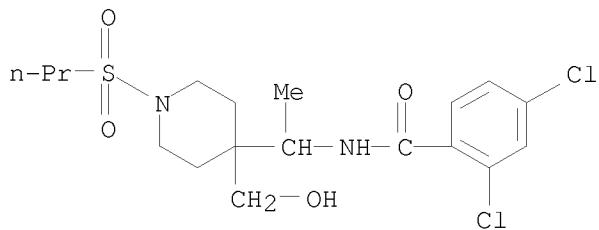
CN 4-Piperidinecarboxylic acid, 4-[(2,4-dichlorobenzoyl)amino]methyl-1-(propylsulfonyl)- (CA INDEX NAME)



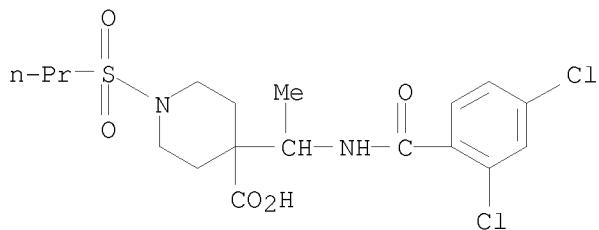
RN 919284-90-5 CAPLUS  
 CN Benzamide, 2,4-dichloro-N-[1-[4-[(phenylmethoxy)methyl]-1-(propylsulfonyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)



RN 919284-91-6 CAPLUS  
 CN Benzamide, 2,4-dichloro-N-[1-[4-(hydroxymethyl)-1-(propylsulfonyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)



RN 919284-92-7 CAPLUS  
 CN 4-Piperidinecarboxylic acid, 4-[1-[(2,4-dichlorobenzoyl)amino]ethyl]-1-(propylsulfonyl)- (CA INDEX NAME)



REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2006:1093266 CAPLUS  
 DOCUMENT NUMBER: 145:432223

TITLE: Method of treating schizophrenia prodrome  
 INVENTOR(S): Woods, Scott W.  
 PATENT ASSIGNEE(S): Yale University, USA  
 SOURCE: PCT Int. Appl., 64pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006110724	A2	20061019	WO 2006-US13444	20060411
WO 2006110724	A3	20070322		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2006235400	A1	20061019	AU 2006-235400	20060411
CA 2602626	A1	20061019	CA 2006-2602626	20060411
EP 1871165	A2	20080102	EP 2006-740849	20060411
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU				
JP 2008535864	T	20080904	JP 2008-505637	20060411
PRIORITY APPLN. INFO.:			US 2005-670600P	P 20050411
			WO 2006-US13444	W 20060411

OTHER SOURCE(S): MARPAT 145:432223

AB The present invention relates to a method of treating schizophrenia prodrome in human subjects using a NMDA glycine site agonist, a glycine transporter-1 inhibitor or mixts. thereof, optionally in combination with a pharmaceutically acceptable additive, carrier or excipient.

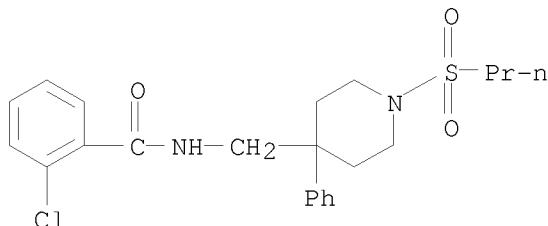
IT 852029-09-5

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(method of treating schizophrenia prodrome with NMDA glycine agonist and glycine transporter-1 inhibitor)

RN 852029-09-5 CAPLUS

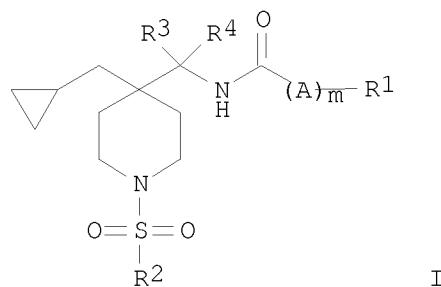
CN Benzamide, 2-chloro-N-[(4-phenyl-1-(propylsulfonyl)-4-piperidinyl)methyl]-(CA INDEX NAME)



ACCESSION NUMBER: 2006:342953 CAPLUS  
 DOCUMENT NUMBER: 144:369920  
 TITLE: Cyclopropyl piperidine glycine transporter inhibitors for treatment of neurological and psychiatric disorders  
 INVENTOR(S): Lindsley, Craig W.; Wisnoski, David D.; Wolkenberg, Scott E.  
 PATENT ASSIGNEE(S): Merck & Co., Inc., USA  
 SOURCE: PCT Int. Appl., 37 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006039221	A2	20060413	WO 2005-US34301	20050926
WO 2006039221	A3	20060908		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2005292323	A1	20060413	AU 2005-292323	20050926
CA 2581582	A1	20060413	CA 2005-2581582	20050926
EP 1797035	A2	20070620	EP 2005-801197	20050926
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 101031547	A	20070905	CN 2005-80033117	20050926
JP 2008514705	T	20080508	JP 2007-534679	20050926
BR 2005015954	A	20080812	BR 2005-15954	20050926
IN 2007DN01977	A	20070817	IN 2007-DN1977	20070314
US 20080108663	A1	20080508	US 2007-664190	20070328
MX 200703816	A	20070424	MX 2007-3816	20070329
KR 2007058565	A	20070608	KR 2007-707362	20070330
NO 2007002208	A	20070427	NO 2007-2208	20070427
PRIORITY APPLN. INFO.:			US 2004-614942P	P 20040930
			WO 2005-US34301	W 20050926

OTHER SOURCE(S): MARPAT 144:369920  
 GI



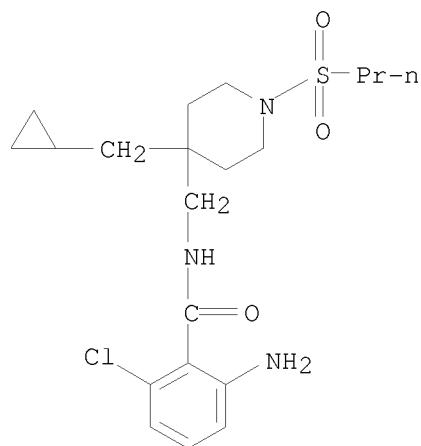
AB The present invention is directed to cyclopropyl piperidine compds. (I; R1 = substituted Ph, substituted heterocycle, (un)substituted C1-8 alkyl, (un)substituted C3-6 cycloalkyl; R2 = (un)substituted C1-6 alkyl, (un)substituted C3-6 cycloalkyl; R3, R4 = H, (un)substituted C1-6 alkyl; A = O, NR5; R5 = H, (un)substituted C1-6 alkyl, (un)substituted C3-6 cycloalkyl, benzyl, phenyl; m = 0, 1) that inhibit the glycine transporter GlyT1 and which are useful in the treatment of neurol. and psychiatric disorders associated with glycineergic or glutamatergic neurotransmission dysfunction and diseases in which the glycine transporter GlyT1 is involved.

IT 882034-97-1P 882034-98-2P 882035-07-6P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of cyclopropyl piperidine compds. as glycine transporter inhibitors for treatment of neurol. and psychiatric disorders)

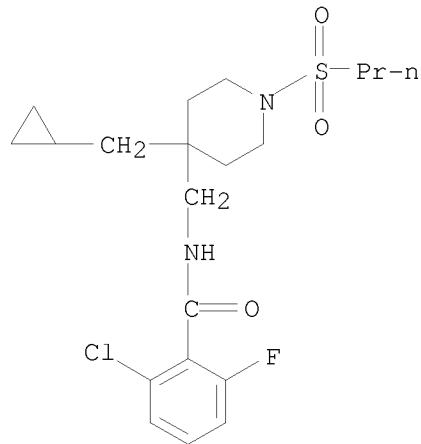
RN 882034-97-1 CAPLUS

CN Benzamide, 2-amino-6-chloro-N-[(4-(cyclopropylmethyl)-1-(propylsulfonyl)-4-piperidinyl)methyl]- (CA INDEX NAME)

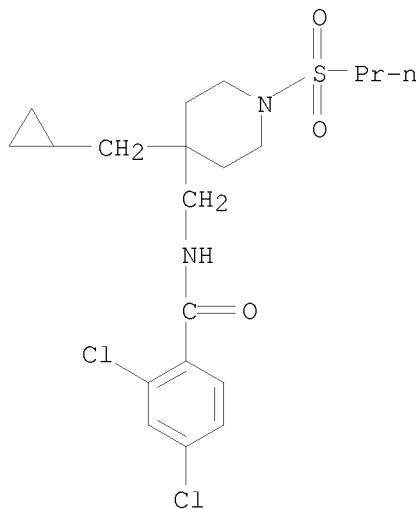


RN 882034-98-2 CAPLUS

CN Benzamide, 2-chloro-N-[(4-(cyclopropylmethyl)-1-(propylsulfonyl)-4-piperidinyl)methyl]-6-fluoro- (CA INDEX NAME)



RN 882035-07-6 CAPLUS  
CN Benzamide, 2,4-dichloro-N-[(4-(cyclopropylmethyl)-1-(propylsulfonyl)-4-piperidinyl)methyl]- (CA INDEX NAME)

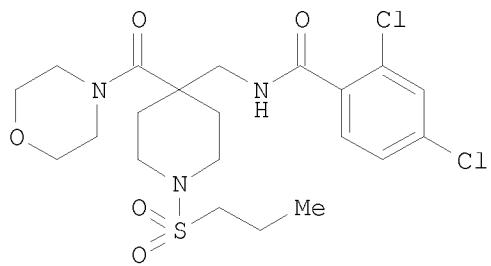


L4 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2005:1220538 CAPLUS  
DOCUMENT NUMBER: 143:472603  
TITLE: Morpholinyl piperidine derivative glycine transporter GlyT1 inhibitors, their preparation/., and their use for treatment of neurological and psychiatric disorders  
INVENTOR(S): Lindsley, Craig W.; Wolkenberg, Scott E.; Zhao, Zhijian  
PATENT ASSIGNEE(S): Merck & Co., Inc., USA  
SOURCE: PCT Int. Appl., 40 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005107469	A2	20051117	WO 2005-US15134	20050429
WO 2005107469	A3	20060629		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 20070249606	A1	20071025	US 2006-579234	20061030
PRIORITY APPLN. INFO.:			US 2004-568201P	P 20040505
			WO 2005-US15134	W 20050429

OTHER SOURCE(S):  
GI

MARPAT 143:472603



I

AB The invention discloses morpholinyl piperidine compds. that inhibit the glycine transporter GlyT1 and which are useful in the treatment of neuro. and psychiatric disorders associated with glycinergic or glutamatergic neurotransmission dysfunction and diseases in which the glycine transporter GlyT1 is involved. Preparation of I is described.

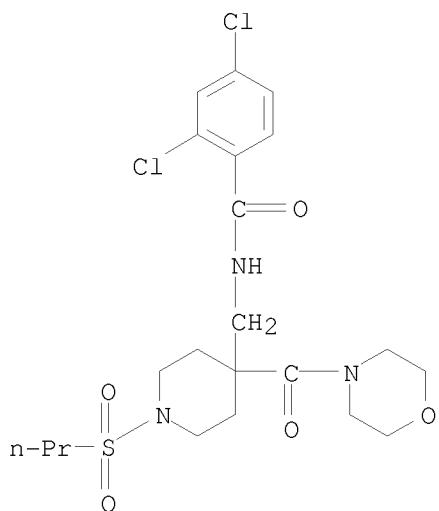
IT 869463-15-0P 869463-16-1P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(morpholinyl piperidine derivative glycine transporter GlyT1 inhibitor preparation and use for treatment of neuro. and psychiatric disorders)

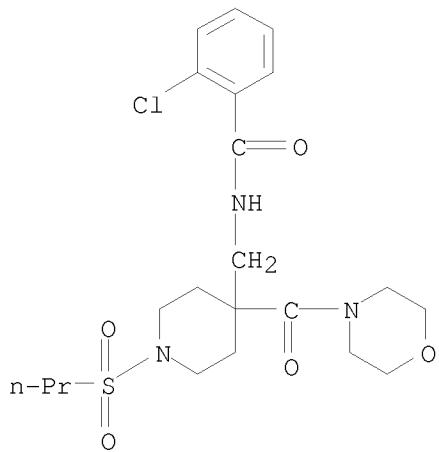
RN 869463-15-0 CAPLUS

CN Benzamide, 2,4-dichloro-N-[(4-(4-morpholinylcarbonyl)-1-(propylsulfonyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



RN 869463-16-1 CAPLUS

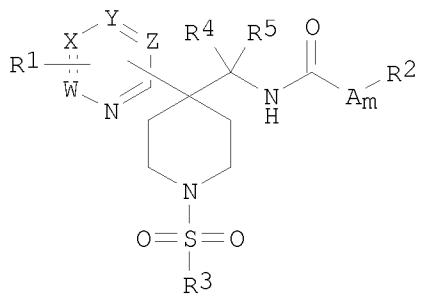
CN Benzamide, 2-chloro-N-[(4-(4-morpholinylcarbonyl)-1-(propylsulfonyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



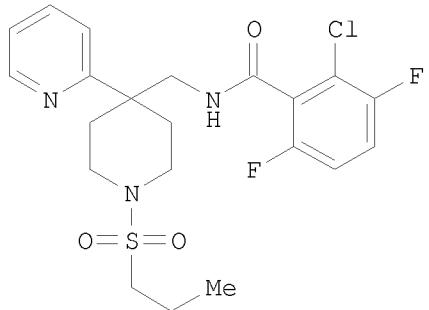
L4 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2005:1103490 CAPLUS  
 DOCUMENT NUMBER: 143:386922  
 TITLE: Preparation of heteroaryl-substituted piperidine glycine transporter inhibitors for the treatment of psychiatric disorders  
 INVENTOR(S): Blackaby, Wesley; Duggan, Mark E.; Hallett, David; Hartman, George D.; Jennings, Andrew S.; Leister, William H.; Lewis, Richard T.; Lindsley, Craig W.; Naylor, Elizabeth; Street, Leslie J.; Wang, Yi; Wisnoski, David D.; Wolkenberg, Scott E.; Zhao, Zhijian  
 PATENT ASSIGNEE(S): Merck & Co., Inc., USA; Merck Sharp & Dohme Limited  
 SOURCE: PCT Int. Appl., 94 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005094514	A2	20051013	WO 2005-US9810	20050323
WO 2005094514	A3	20060420		
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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2005228133	A1	20051013	AU 2005-228133	20050323
CA 2560256	A1	20051013	CA 2005-2560256	20050323
EP 1729772	A2	20061213	EP 2005-726105	20050323
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, LV				
CN 1933836	A	20070321	CN 2005-80009593	20050323
JP 2007530576	T	20071101	JP 2007-505167	20050323

IN 2006CN03155	A 20070608	IN 2006-CN3155	20060831
US 20070254880	A1 20071101	US 2007-593950	20070510
PRIORITY APPLN. INFO.:		US 2004-555925P	P 20040324
		WO 2005-US9810	W 20050323
OTHER SOURCE(S):	CASREACT 143:386922; MARPAT 143:386922		
GI			



I



II

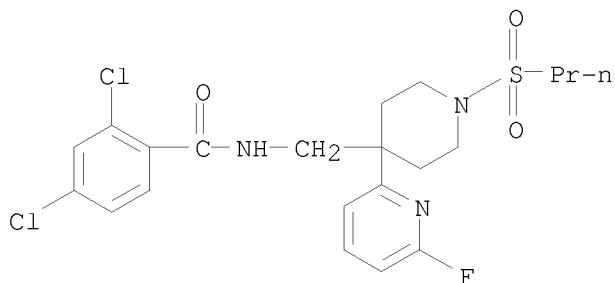
AB Title compds. I [R1 = H, alkyl, halo, Ph, etc.; R2 = (un)substituted Ph, heterocyclyl, alkyl, etc.; R3 = alkyl, cycloalkyl, etc.; R4-5 = H, alkyl, etc.; R6 = H, alkyl; W, X, Y, Z = C, N with the proviso that at least two of W, X, Y and Z are C, to form a pyridine, oxodihydropyridine, etc.; A = O, (un)substituted N; m = 0-1] are prepared. For instance, II is prepared in 5 steps from 2-fluoropyridine, tert-Bu 4-cyanopiperidine-1-carboxylate, n-PrSO2Cl and 2-chloro-3,6-difluorobenzoyl chloride. I inhibit the glycine transporter GlyT1 [no data] and are useful in the treatment of neurol. and psychiatric disorders associated with glycnergic or glutamatergic neurotransmission dysfunction and diseases in which the glycine transporter GlyT1 is involved.

IT 866559-77-5P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
(preparation of heteroaryl-substituted piperidine glycine transporter inhibitors for treatment of psychiatric disorders)

RN 866559-77-5 CAPLUS

CN Benzamide, 2,4-dichloro-N-[(4-(6-fluoro-2-pyridinyl)-1-(propylsulfonyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



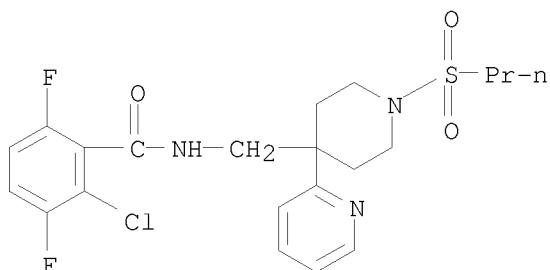
IT 866558-67-0P 866558-68-1P 866558-69-2P  
 866558-71-6P 866558-72-7P 866558-73-8P  
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 866558-77-2P 866558-78-3P 866558-79-4P  
 866558-80-7P 866558-81-8P 866558-82-9P  
 866558-83-0P 866558-84-1P 866558-85-2P  
 866558-86-3P 866558-87-4P 866558-93-2P  
 866558-94-3P 866558-95-4P 866558-96-5P  
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 866559-64-0P 866559-71-9P 866559-75-3P  
 866559-76-4P 866559-78-6P 866559-79-7P  
 866559-80-0P 866559-81-1P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of heteroaryl-substituted piperidine glycine transporter inhibitors for treatment of psychiatric disorders)

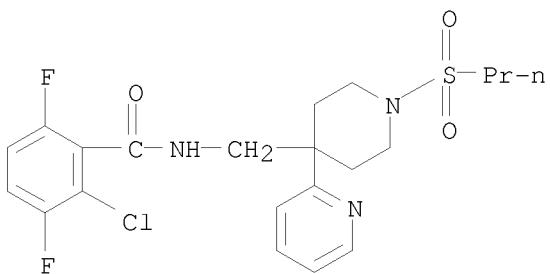
RN 866558-67-0 CAPLUS

CN Benzamide, 2-chloro-3,6-difluoro-N-[(1-(propylsulfonyl)-4-(2-pyridinyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



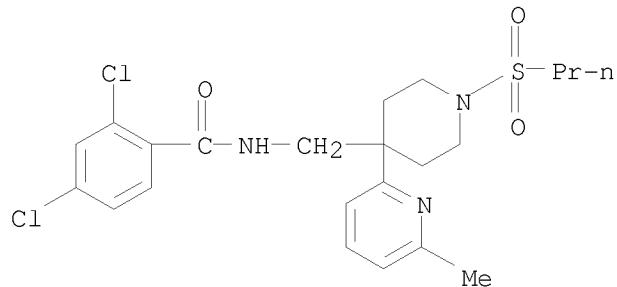
RN 866558-68-1 CAPLUS

CN Benzamide, 2-chloro-3,6-difluoro-N-[(1-(propylsulfonyl)-4-(2-pyridinyl)-4-piperidinyl)methyl]-, hydrochloride (1:1) (CA INDEX NAME)

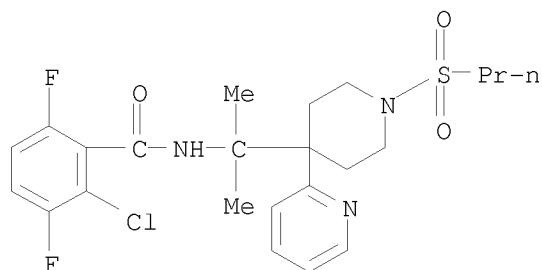


● HCl

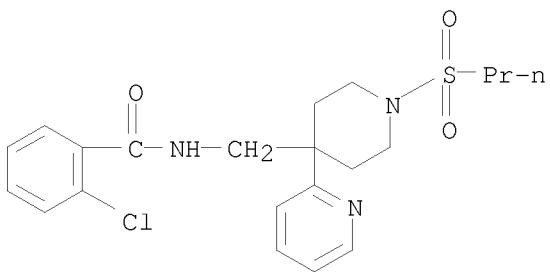
RN 866558-69-2 CAPLUS  
 CN Benzamide, 2,4-dichloro-N-[4-(6-methyl-2-pyridinyl)-1-(propylsulfonyl)-4-piperidinyl]methyl]- (CA INDEX NAME)



RN 866558-71-6 CAPLUS  
 CN Benzamide, 2-chloro-3,6-difluoro-N-[1-methyl-1-[1-(propylsulfonyl)-4-(2-pyridinyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)

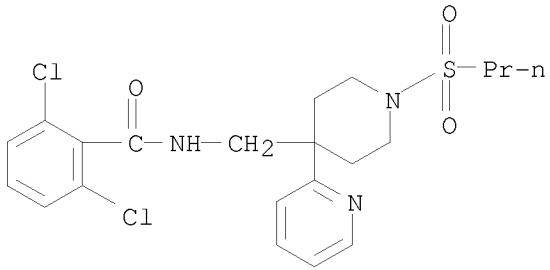


RN 866558-72-7 CAPLUS  
 CN Benzamide, 2-chloro-N-[1-(propylsulfonyl)-4-(2-pyridinyl)-4-piperidinyl]methyl]- (CA INDEX NAME)



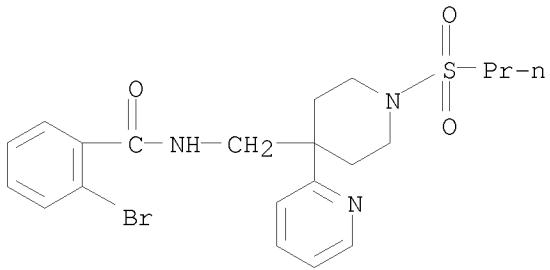
RN 866558-73-8 CAPLUS

CN Benzamide, 2,6-dichloro-N-[1-(propylsulfonyl)-4-(2-pyridinyl)-4-piperidinyl]methyl- (CA INDEX NAME)



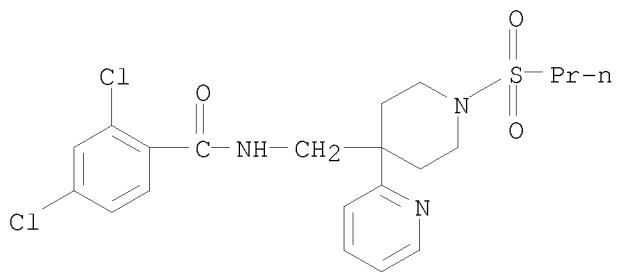
RN 866558-74-9 CAPLUS

CN Benzamide, 2-bromo-N-[1-(propylsulfonyl)-4-(2-pyridinyl)-4-piperidinyl]methyl- (CA INDEX NAME)



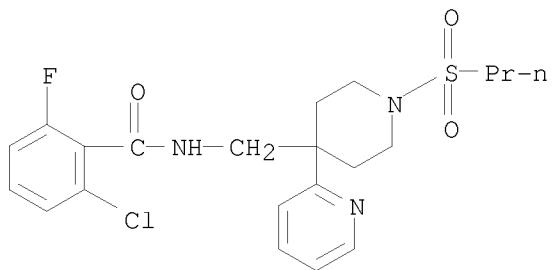
RN 866558-75-0 CAPLUS

CN Benzamide, 2,4-dichloro-N-[1-(propylsulfonyl)-4-(2-pyridinyl)-4-piperidinyl]methyl- (CA INDEX NAME)



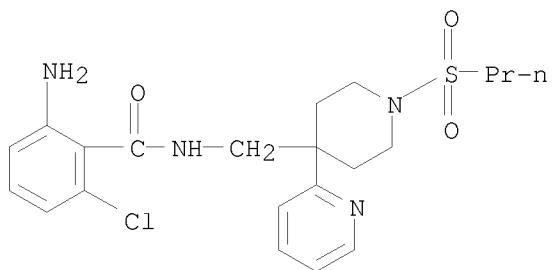
RN 866558-76-1 CAPLUS

CN Benzamide, 2-chloro-6-fluoro-N-[1-(propylsulfonyl)-4-(2-pyridinyl)-4-piperidinyl]methyl- (CA INDEX NAME)



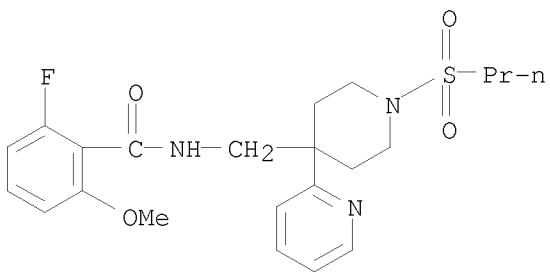
RN 866558-77-2 CAPLUS

CN Benzamide, 2-amino-6-chloro-N-[1-(propylsulfonyl)-4-(2-pyridinyl)-4-piperidinyl]methyl- (CA INDEX NAME)



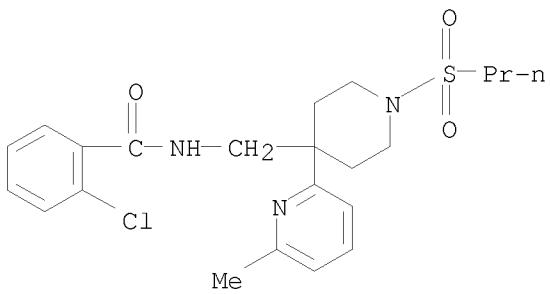
RN 866558-78-3 CAPLUS

CN Benzamide, 2-fluoro-6-methoxy-N-[1-(propylsulfonyl)-4-(2-pyridinyl)-4-piperidinyl]methyl- (CA INDEX NAME)



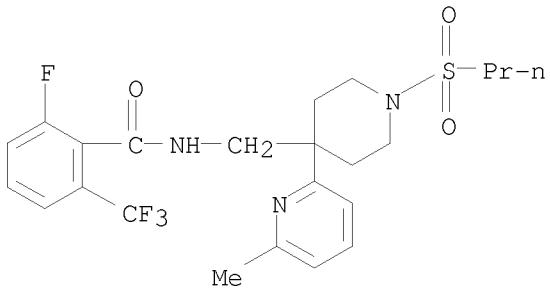
RN 866558-79-4 CAPLUS

CN Benzamide, 2-chloro-N-[4-(6-methyl-2-pyridinyl)-1-(propylsulfonyl)-4-piperidinyl]methyl- (CA INDEX NAME)



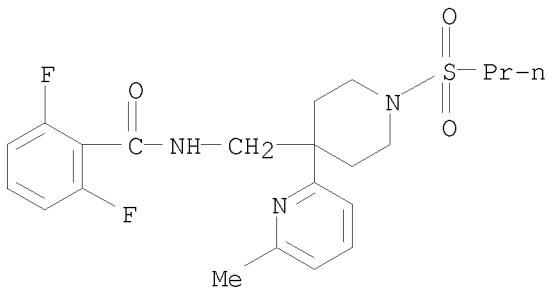
RN 866558-80-7 CAPLUS

CN Benzamide, 2-fluoro-N-[4-(6-methyl-2-pyridinyl)-1-(propylsulfonyl)-4-piperidinyl]methyl-6-(trifluoromethyl)- (CA INDEX NAME)



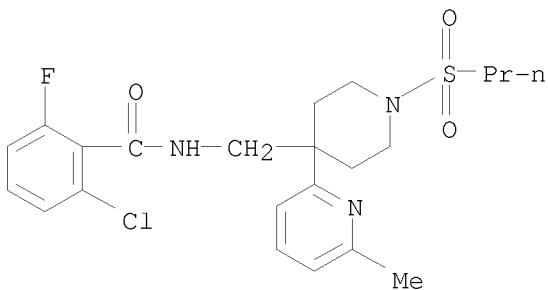
RN 866558-81-8 CAPLUS

CN Benzamide, 2,6-difluoro-N-[4-(6-methyl-2-pyridinyl)-1-(propylsulfonyl)-4-piperidinyl]methyl- (CA INDEX NAME)



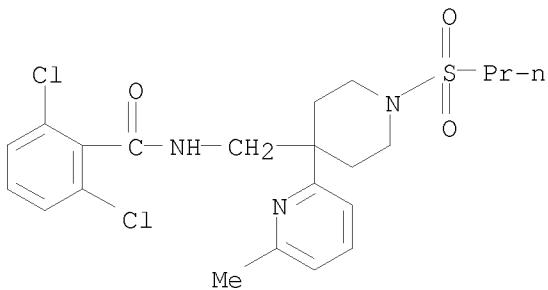
RN 866558-82-9 CAPLUS

CN Benzamide, 2-chloro-6-fluoro-N-[(4-(6-methyl-2-pyridinyl)-1-(propylsulfonyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



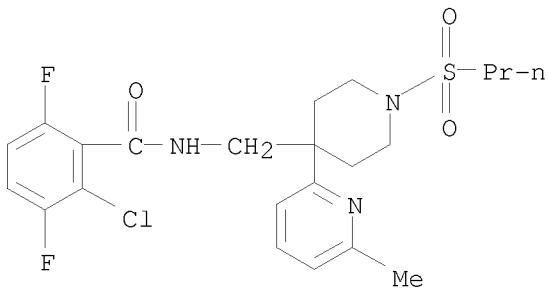
RN 866558-83-0 CAPLUS

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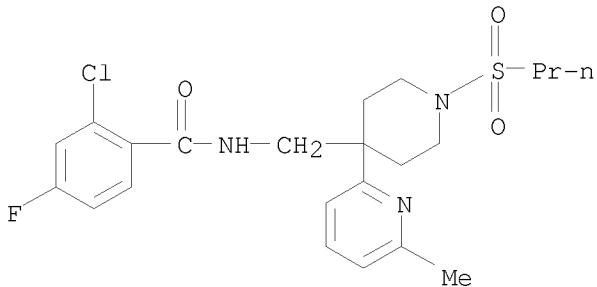
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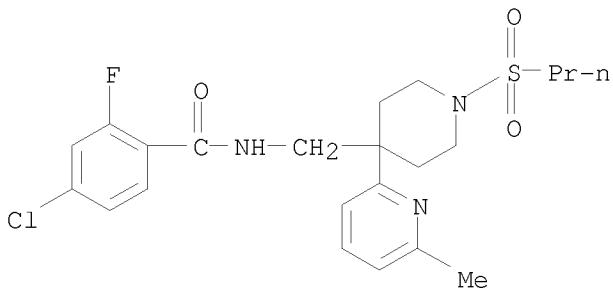
RN 866558-85-2 CAPLUS

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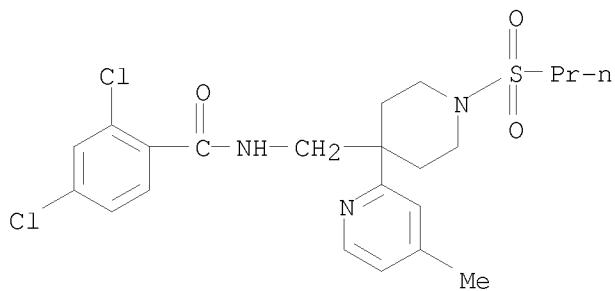
RN 866558-86-3 CAPLUS

CN Benzamide, 4-chloro-2-fluoro-N-[(4-(6-methyl-2-pyridinyl)-1-(propylsulfonyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



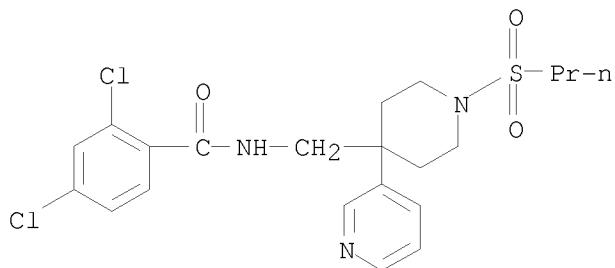
RN 866558-87-4 CAPLUS

CN Benzamide, 2,4-dichloro-N-[(4-(4-methyl-2-pyridinyl)-1-(propylsulfonyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



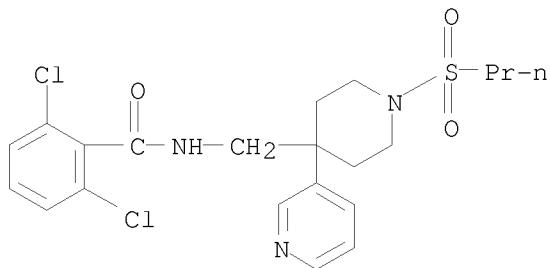
RN 866558-93-2 CAPLUS

CN Benzamide, 2,4-dichloro-N-[(1-(propylsulfonyl)-4-(3-pyridinyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



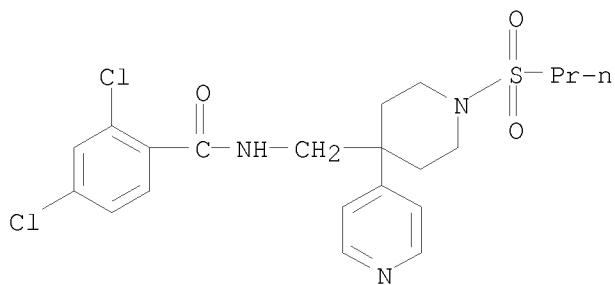
RN 866558-94-3 CAPLUS

CN Benzamide, 2,6-dichloro-N-[(1-(propylsulfonyl)-4-(3-pyridinyl)-4-piperidinyl)methyl]- (CA INDEX NAME)

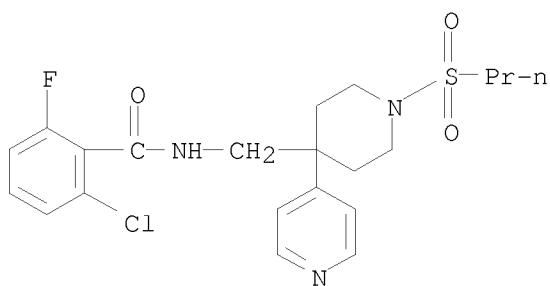


RN 866558-95-4 CAPLUS

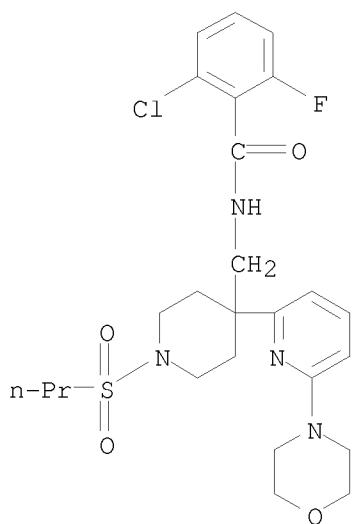
CN Benzamide, 2,4-dichloro-N-[(1-(propylsulfonyl)-4-(4-pyridinyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



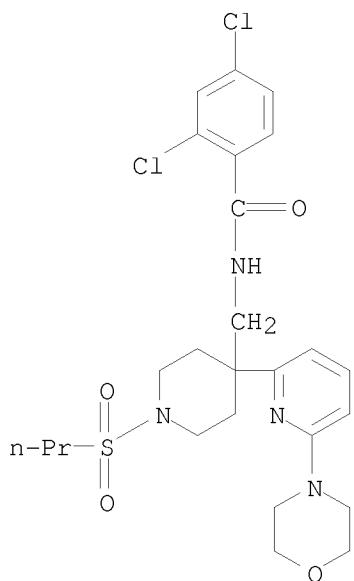
RN 866558-96-5 CAPLUS  
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RN 866558-99-8 CAPLUS  
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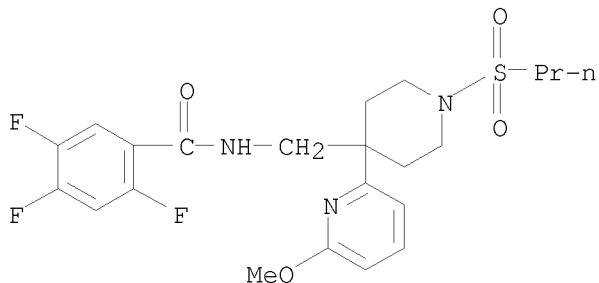


RN 866559-00-4 CAPLUS  
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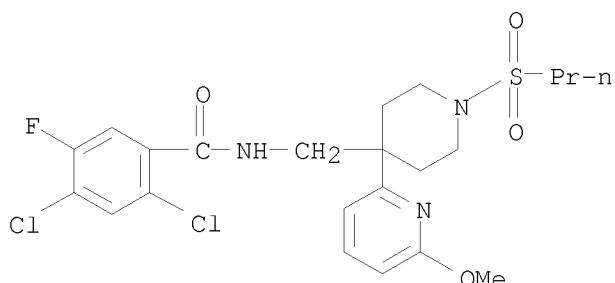
RN 866559-01-5 CAPLUS

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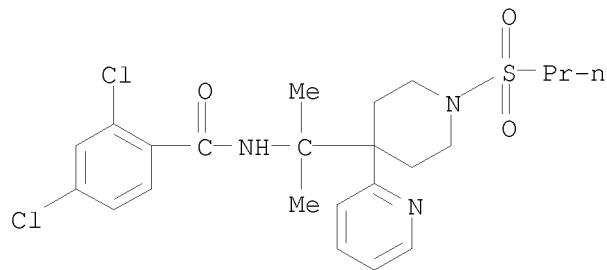
RN 866559-02-6 CAPLUS

CN Benzamide, 2,4-dichloro-5-fluoro-N-[(4-(6-methoxy-2-pyridinyl)-1-(propylsulfonyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



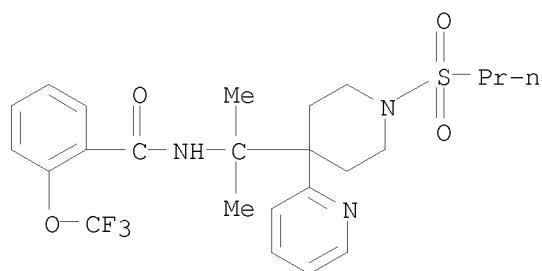
RN 866559-10-6 CAPLUS

CN Benzamide, 2,4-dichloro-N-[(1-methyl-1-[(propylsulfonyl)-4-(2-pyridinyl)-4-piperidinyl]ethyl)-1-(2-pyridinyl)-4-(2-pyridinyl)-4-piperidinyl] (CA INDEX NAME)



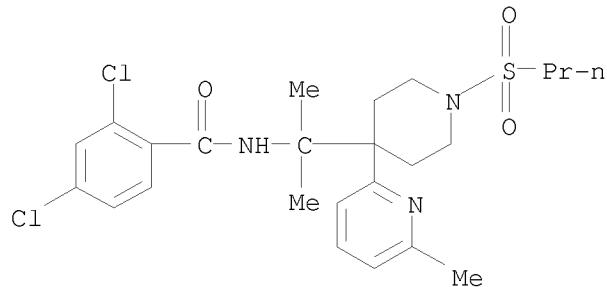
RN 866559-11-7 CAPLUS

CN Benzamide, N-[1-methyl-1-[1-(propylsulfonyl)-4-(2-pyridinyl)-4-piperidinyl]ethyl]-2-(trifluoromethoxy)- (CA INDEX NAME)



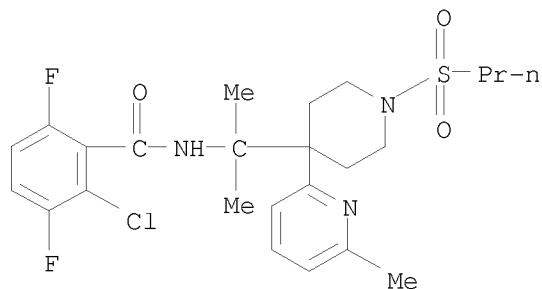
RN 866559-12-8 CAPLUS

CN Benzamide, 2,4-dichloro-N-[1-methyl-1-[4-(6-methyl-2-pyridinyl)-1-(propylsulfonyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)



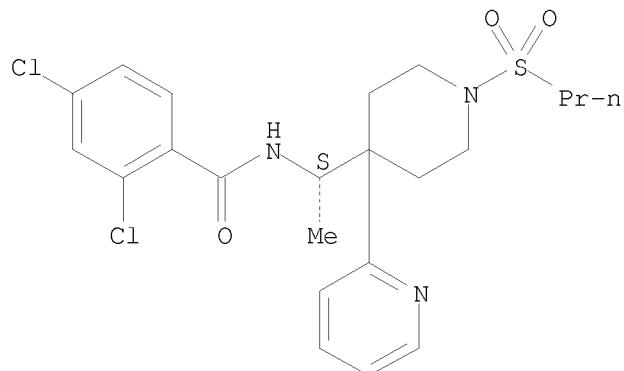
RN 866559-13-9 CAPLUS

CN Benzamide, 2-chloro-3,6-difluoro-N-[1-methyl-1-[4-(6-methyl-2-pyridinyl)-1-(propylsulfonyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)



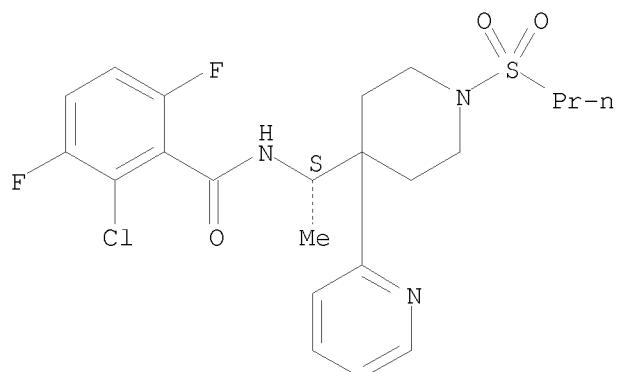
RN 866559-14-0 CAPLUS  
CN Benzamide, 2,4-dichloro-N-[(1S)-1-[1-(propylsulfonyl)-4-(2-pyridinyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)

### Absolute stereochemistry.



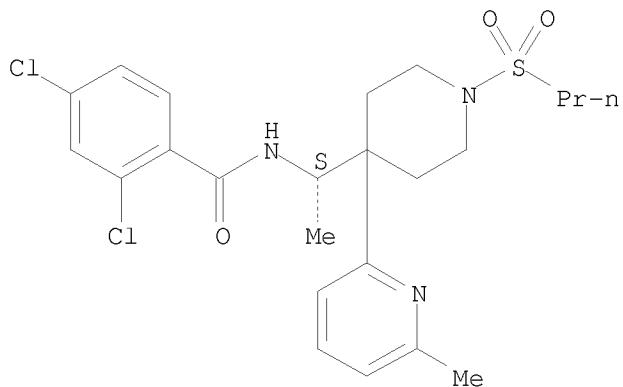
RN 866559-15-1 CAPLUS  
CN Benzamide, 2-chloro-3,6-difluoro-N-[(1S)-1-[1-(propylsulfonyl)-4-(2-pyridinyl)-4-piperidinyl]ethyl]-(CA INDEX NAME)

### Absolute stereochemistry.



RN 866559-16-2 CAPLUS  
CN Benzamide, 2,4-dichloro-N-[(1S)-1-[4-(6-methyl-2-pyridinyl)-1-(propylsulfonyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)

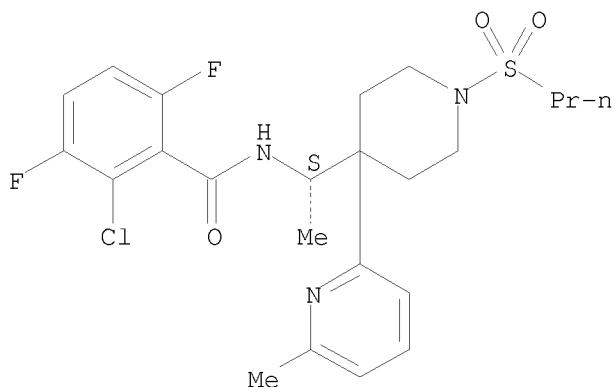
## Absolute stereochemistry.



RN 866559-17-3 CAPLUS

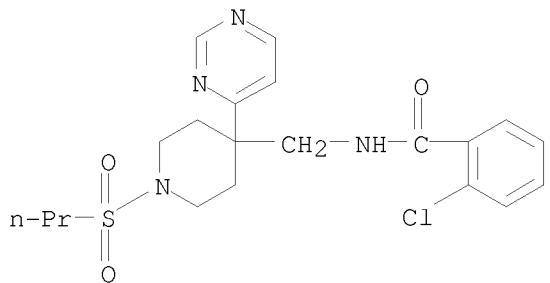
CN Benzamide, 2-chloro-3,6-difluoro-N-[(1S)-1-[4-(6-methyl-2-pyridinyl)-1-(propylsulfonyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)

Absolute stereochemistry.



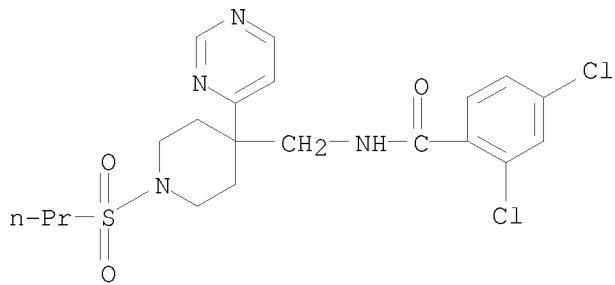
RN 866559-29-7 CAPLUS

CN Benzamide, 2-chloro-N-[(1-(propylsulfonyl)-4-(4-pyrimidinyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



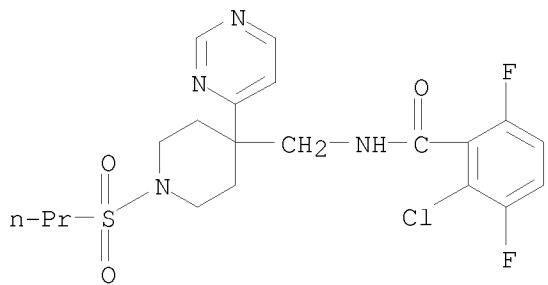
RN 866559-30-0 CAPLUS

CN Benzamide, 2,4-dichloro-N-[(1-(propylsulfonyl)-4-(4-pyrimidinyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



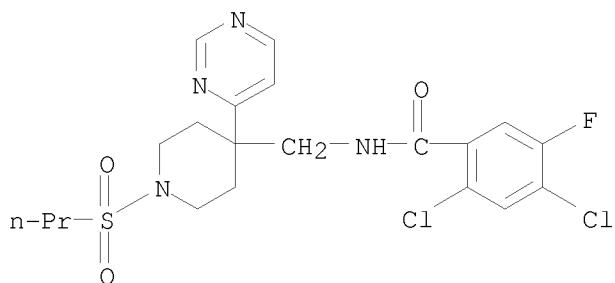
RN 866559-31-1 CAPLUS

CN Benzamide, 2-chloro-3,6-difluoro-N-[(1-(propylsulfonyl)-4-(4-pyrimidinyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



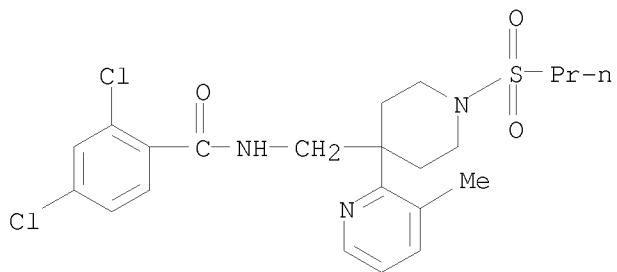
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CN Benzamide, 2,4-dichloro-5-fluoro-N-[(1-(propylsulfonyl)-4-(4-pyrimidinyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



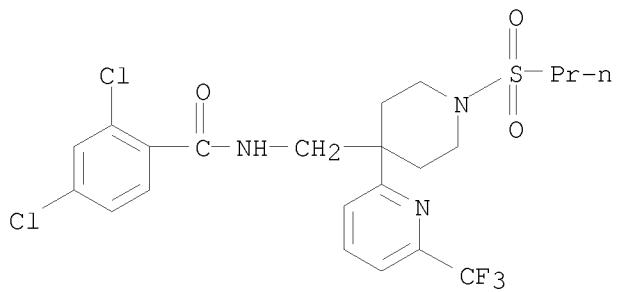
RN 866559-45-7 CAPLUS

CN Benzamide, 2,4-dichloro-N-[(4-(3-methyl-2-pyridinyl)-1-(propylsulfonyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



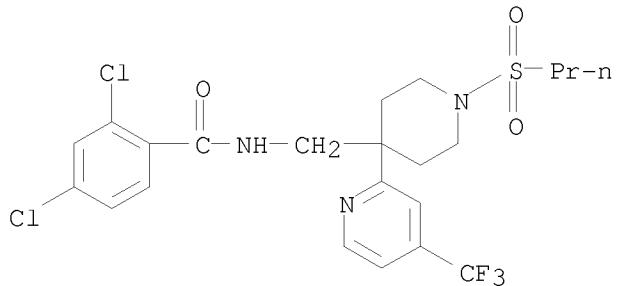
RN 866559-46-8 CAPLUS

CN Benzamide, 2,4-dichloro-N-[(1-(propylsulfonyl)-4-[6-(trifluoromethyl)-2-pyridinyl]-4-piperidinyl)methyl]- (CA INDEX NAME)



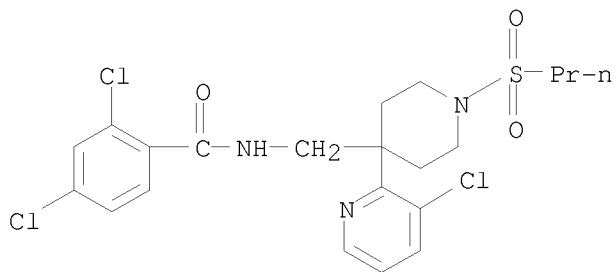
RN 866559-48-0 CAPLUS

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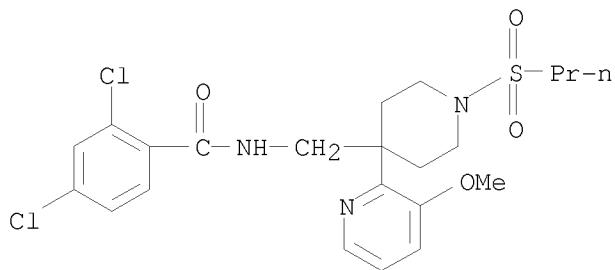
RN 866559-49-1 CAPLUS

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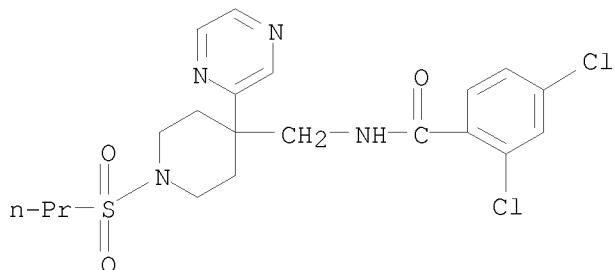
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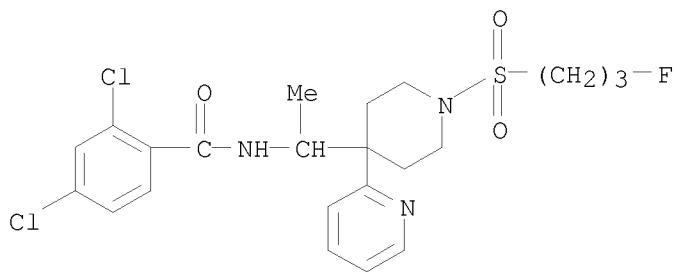
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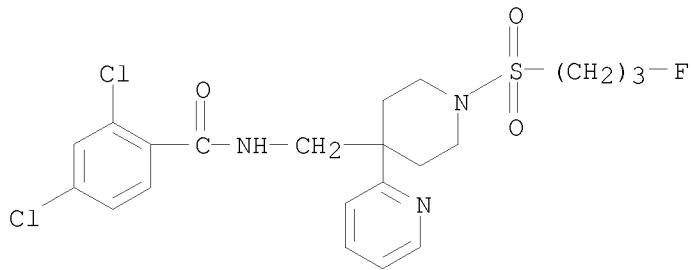
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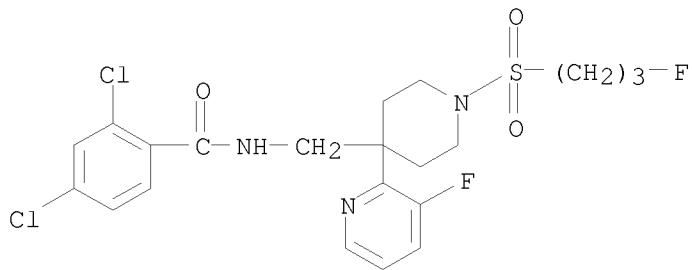
RN 866559-56-0 CAPLUS

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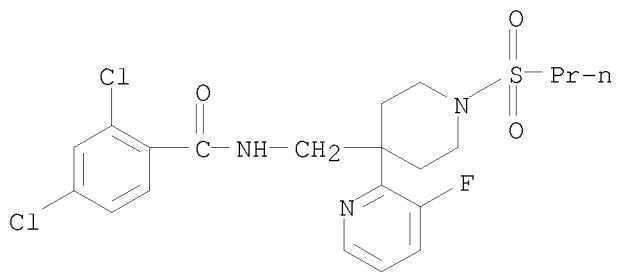
RN 866559-57-1 CAPLUS

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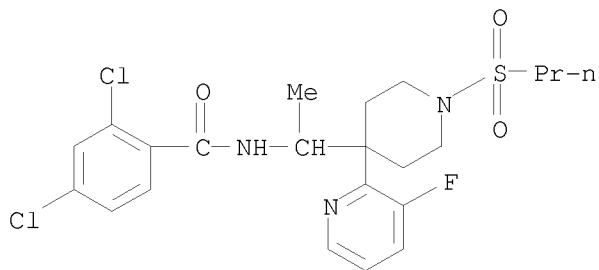
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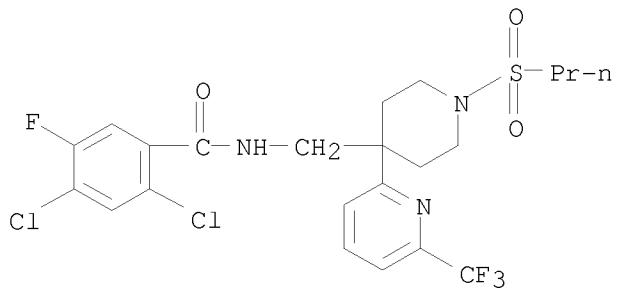
RN 866559-62-8 CAPLUS

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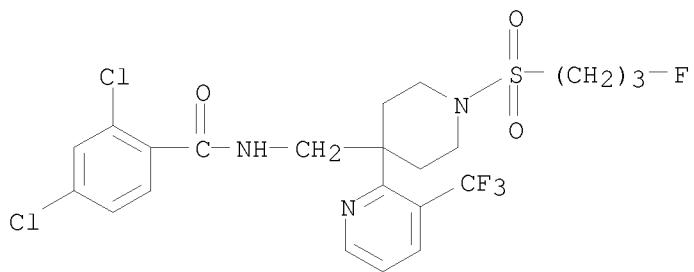
RN 866559-64-0 CAPLUS

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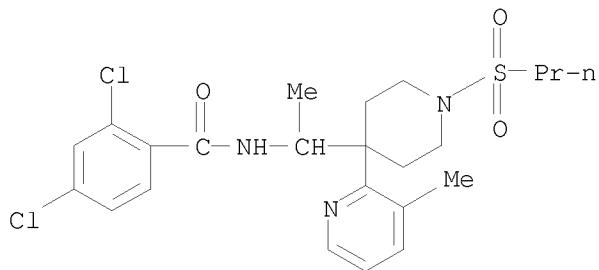
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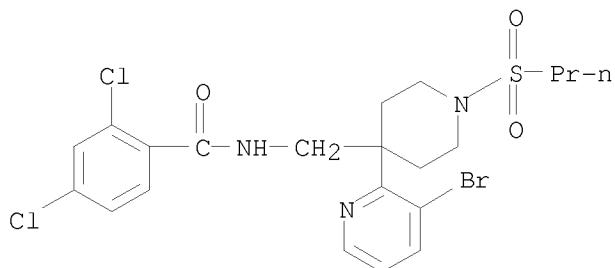
RN 866559-75-3 CAPLUS

CN Benzamide, 2,4-dichloro-N-[1-[4-(3-methyl-2-pyridinyl)-1-(propylsulfonyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)



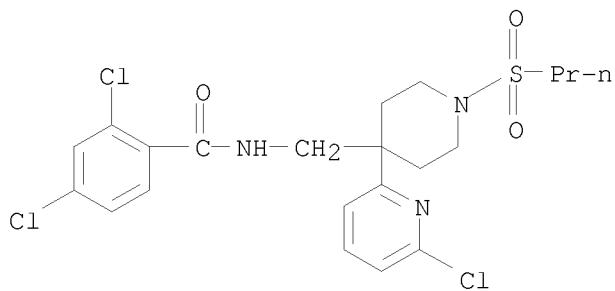
RN 866559-76-4 CAPLUS

CN Benzamide, N-[4-(3-bromo-2-pyridinyl)-1-(propylsulfonyl)-4-piperidinyl]methyl]-2,4-dichloro- (CA INDEX NAME)



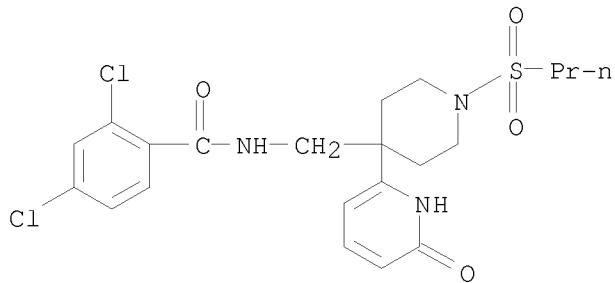
RN 866559-78-6 CAPLUS

CN Benzamide, 2,4-dichloro-N-[1-[4-(6-chloro-2-pyridinyl)-1-(propylsulfonyl)-4-piperidinyl]methyl]- (CA INDEX NAME)



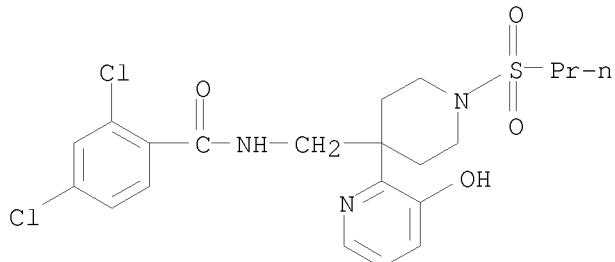
RN 866559-79-7 CAPLUS

CN Benzamide, 2,4-dichloro-N-[(4-(1,6-dihydro-6-oxo-2-pyridinyl)-1-(propylsulfonyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



RN 866559-80-0 CAPLUS

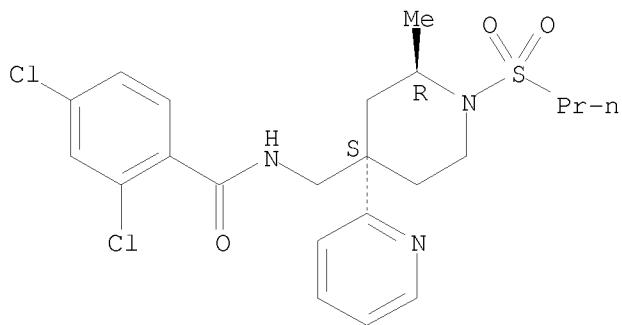
CN Benzamide, 2,4-dichloro-N-[(4-(3-hydroxy-2-pyridinyl)-1-(propylsulfonyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



RN 866559-81-1 CAPLUS

CN Benzamide, 2,4-dichloro-N-[(2R,4S)-2-methyl-1-(propylsulfonyl)-4-(2-pyridinyl)-4-piperidinyl)methyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.



L4 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:451128 CAPLUS

DOCUMENT NUMBER: 142:476263

TITLE: 4-Phenylpiperidine derivative glycine transporter inhibitors for the treatment of neurological and psychiatric disorders

INVENTOR(S): Lindsley, Craig W.; Wisnoski, David D.; Zhao, Zhijian

PATENT ASSIGNEE(S): Merck & Co., Inc., USA

SOURCE: PCT Int. Appl., 76 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005046601	A2	20050526	WO 2004-US37359	20041110
WO 2005046601	A3	20050818		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004289290	A1	20050526	AU 2004-289290	20041110
CA 2544981	A1	20050526	CA 2004-2544981	20041110
EP 1684759	A2	20060802	EP 2004-810610	20041110
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CN 1878551	A	20061213	CN 2004-80033295	20041110
JP 2007512251	T	20070517	JP 2006-539749	20041110
IN 2006DN01895	A	20070615	IN 2006-DN1895	20060407
US 20070105902	A1	20070510	US 2006-579261	20060511
PRIORITY APPLN. INFO.:			US 2003-519348P	P 20031112
			WO 2004-US37359	W 20041110

OTHER SOURCE(S): MARPAT 142:476263

AB The invention discloses 4-phenylpiperidine derivs. that inhibit the glycine transporter GlyT1 and which are useful in the treatment of neurological and psychiatric disorders associated with glycnergic or glutamatergic neurotransmission dysfunction and diseases in which the glycine

transporter GlyT1 is involved. Compound preparation is described.

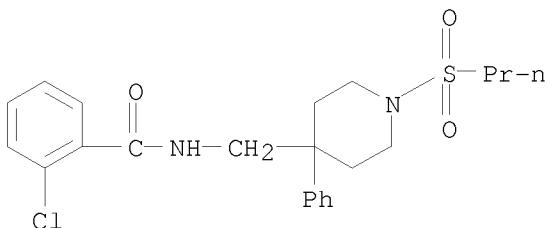
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(phenylpiperidine derivative glycine transporter inhibitors for treatment of neurol. and psychiatric disorders)

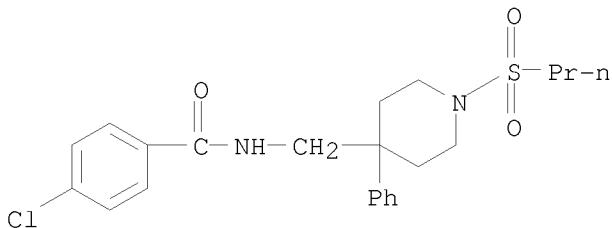
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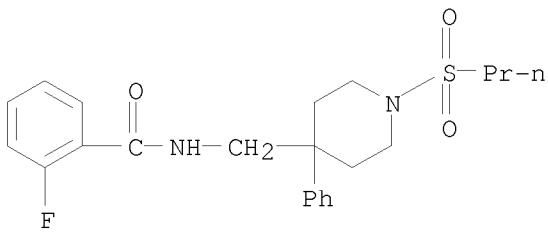
RN 852029-11-9 CAPLUS

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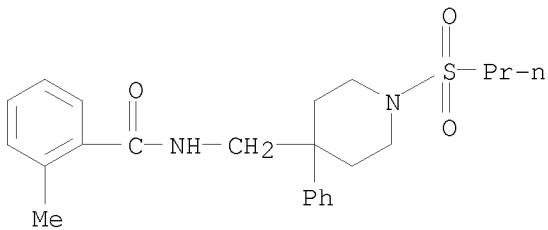
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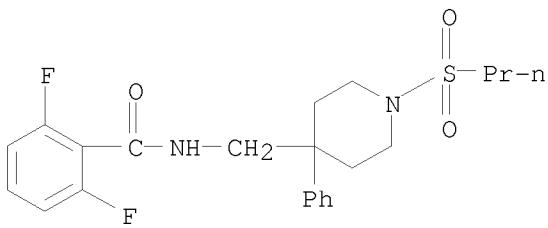
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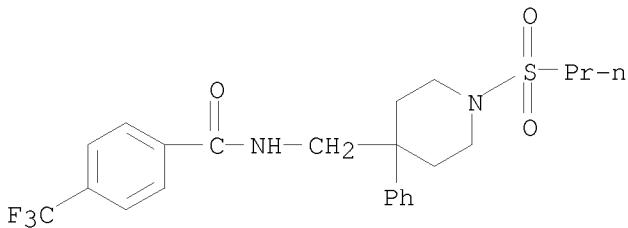
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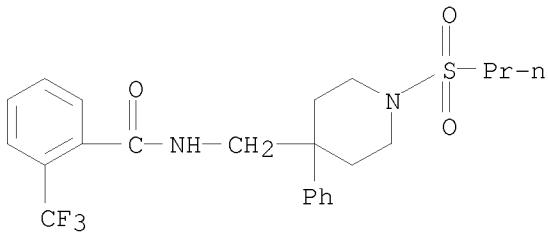
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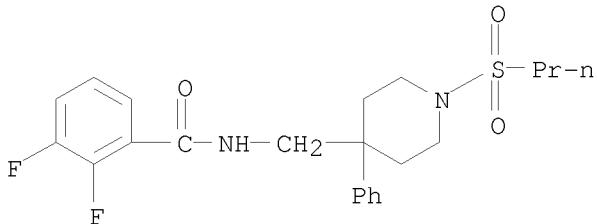
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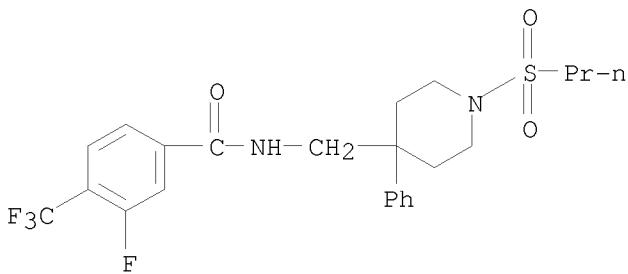
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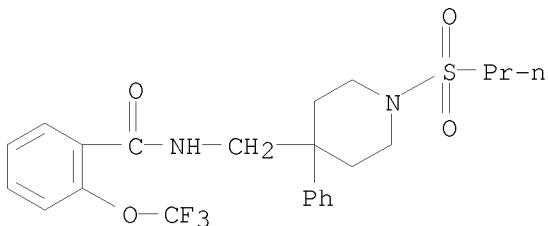
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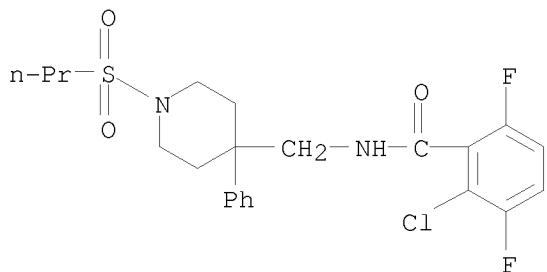
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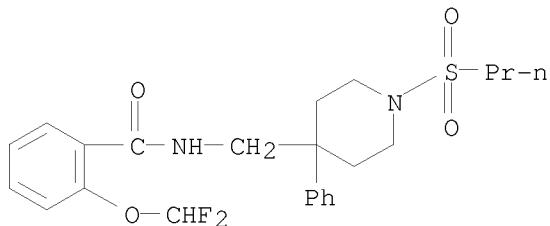


RN 852029-24-4 CAPLUS

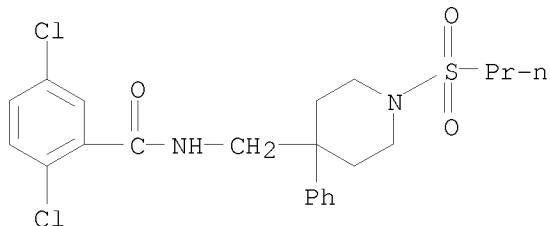
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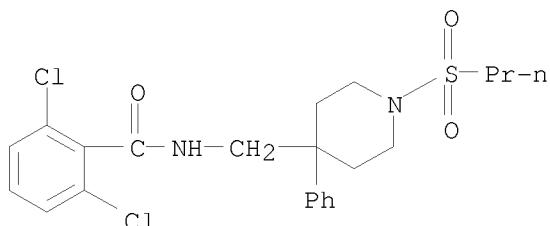
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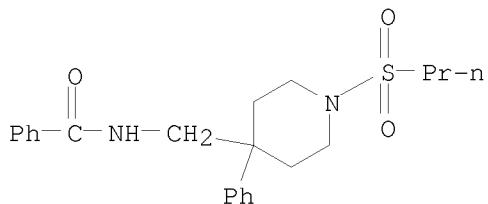
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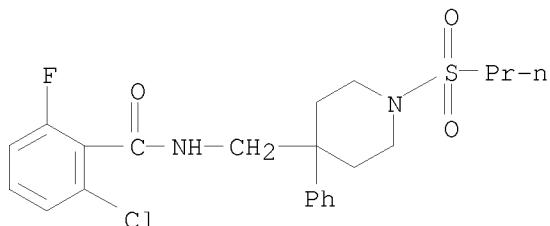
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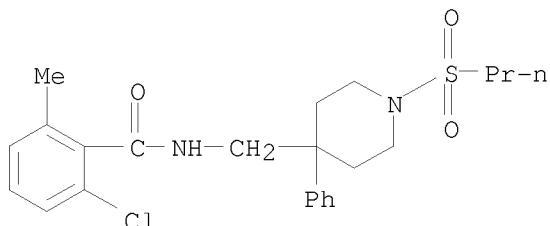
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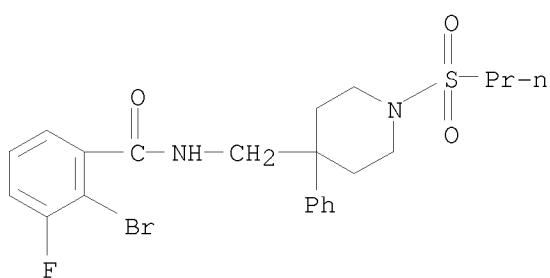
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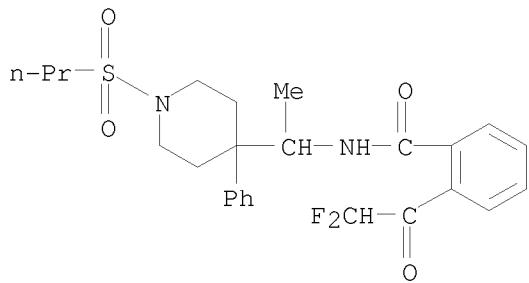
RN 852029-32-4 CAPLUS  
 CN Benzamide, 2-chloro-6-methyl-N-[4-phenyl-1-(propylsulfonyl)-4-piperidinyl]methyl- (CA INDEX NAME)



RN 852029-33-5 CAPLUS  
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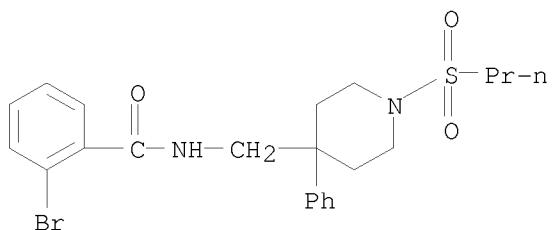


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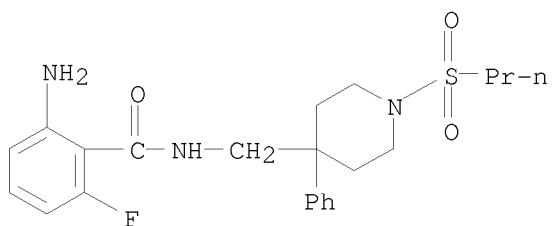
RN 852029-35-7 CAPLUS

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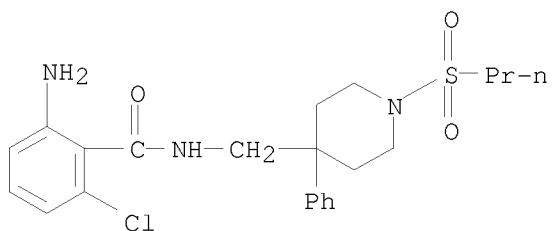
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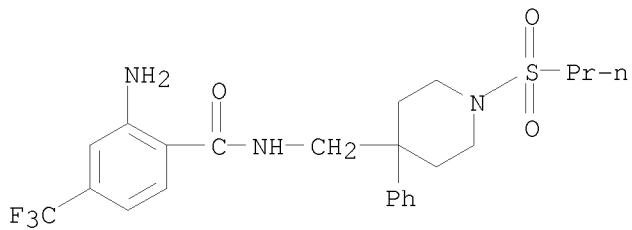
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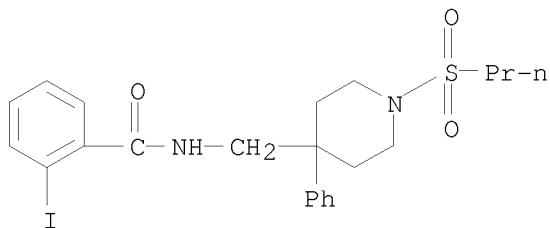
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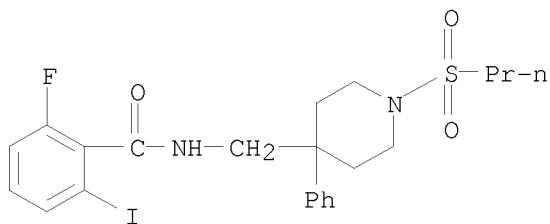
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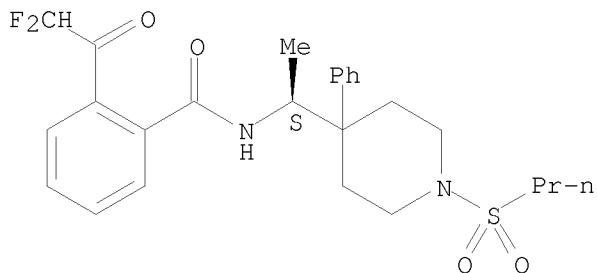
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RN 852029-41-5 CAPLUS

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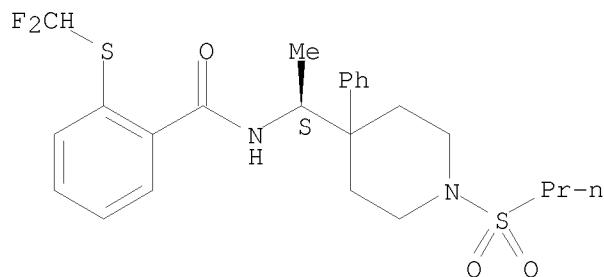
Absolute stereochemistry.



RN 852029-42-6 CAPLUS

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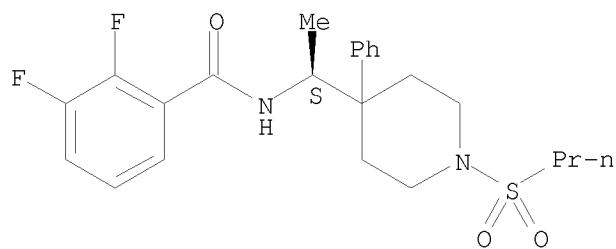
Absolute stereochemistry.



RN 852029-43-7 CAPLUS

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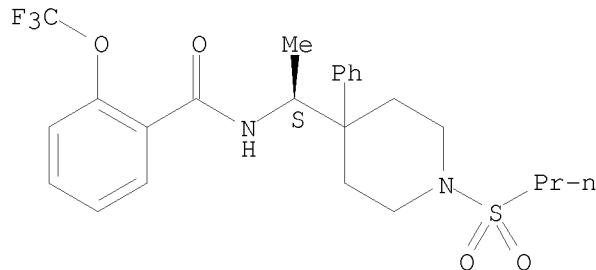
Absolute stereochemistry.



RN 852029-44-8 CAPLUS

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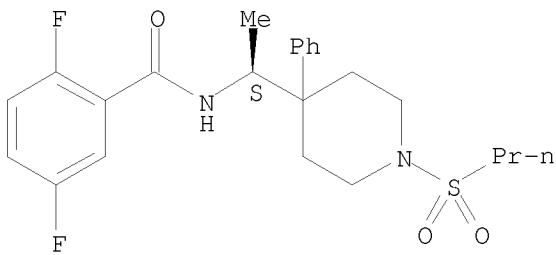
Absolute stereochemistry.



RN 852029-46-0 CAPLUS

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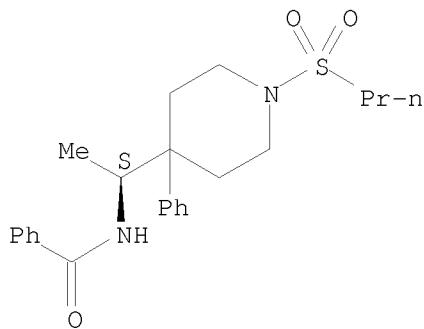
Absolute stereochemistry.



RN 852029-47-1 CAPLUS

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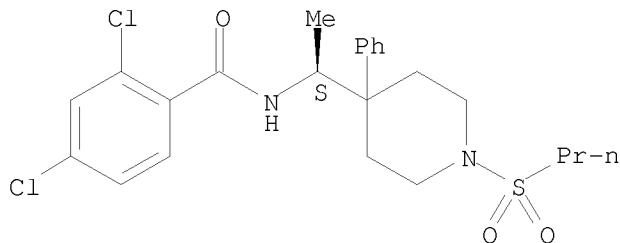
Absolute stereochemistry.



RN 852029-48-2 CAPLUS

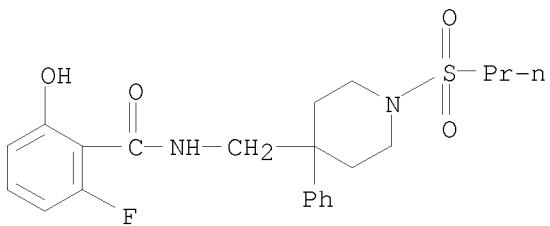
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Absolute stereochemistry.



RN 852029-49-3 CAPLUS

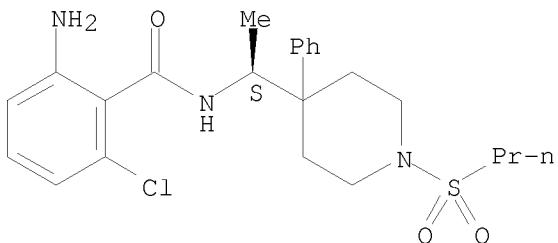
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RN 852029-50-6 CAPLUS

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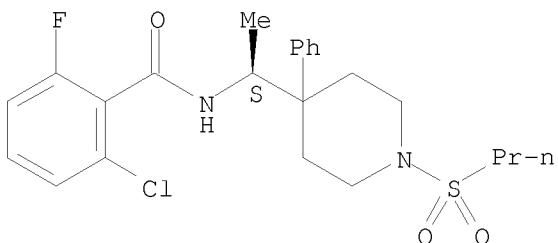
Absolute stereochemistry.



RN 852029-51-7 CAPLUS

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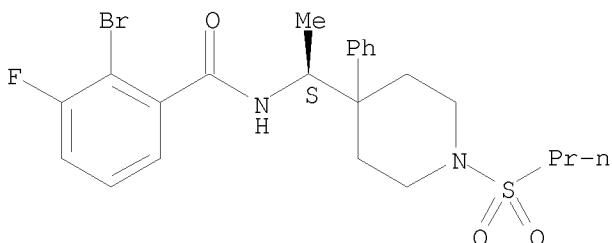
Absolute stereochemistry.



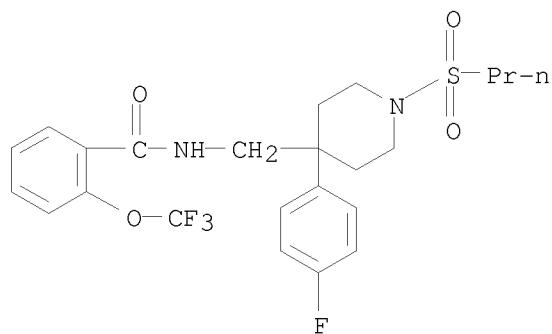
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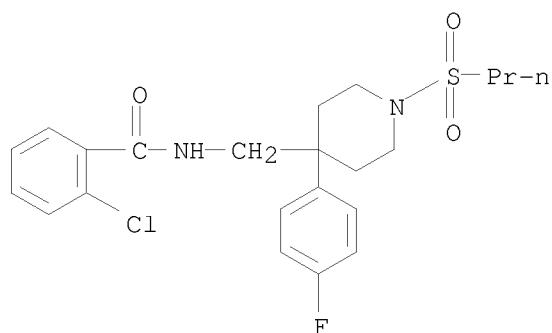
Absolute stereochemistry.



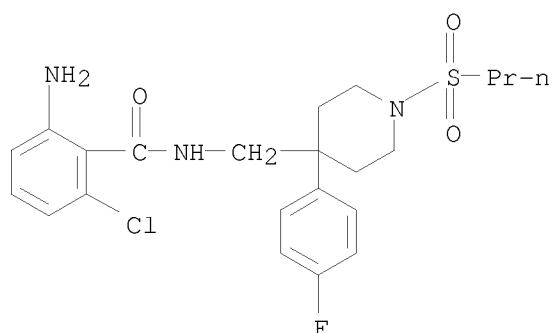
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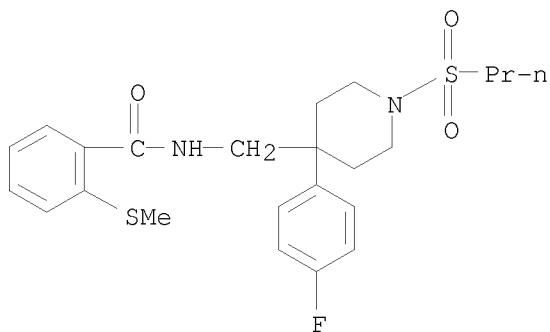
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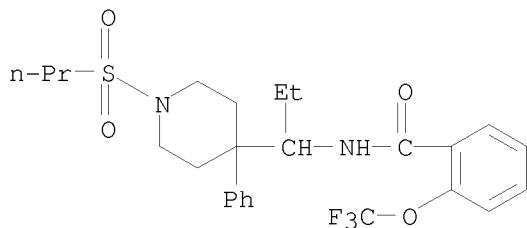
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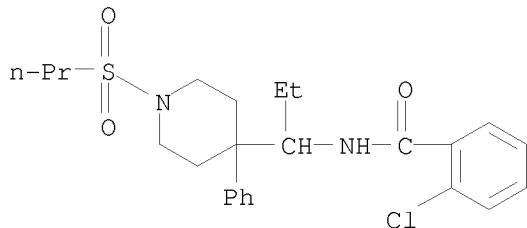
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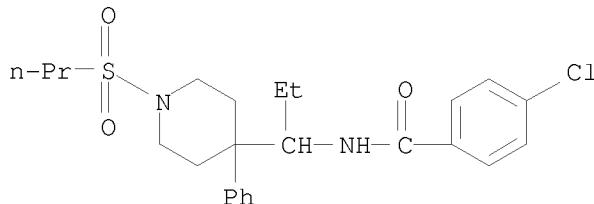
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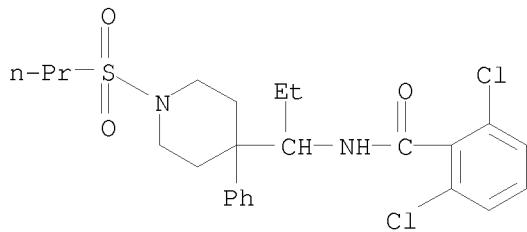
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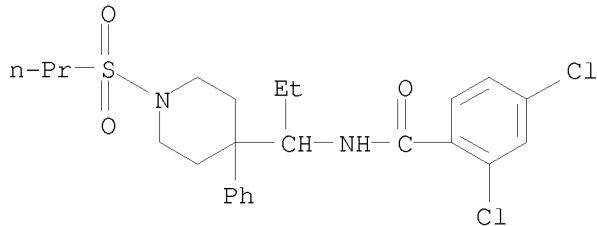


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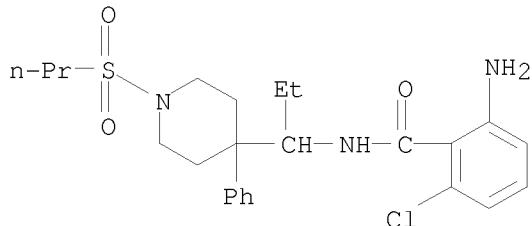
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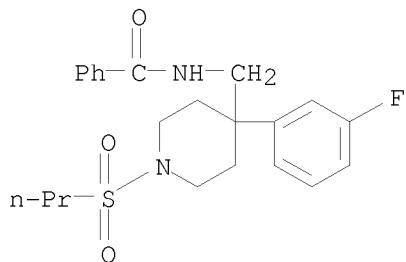
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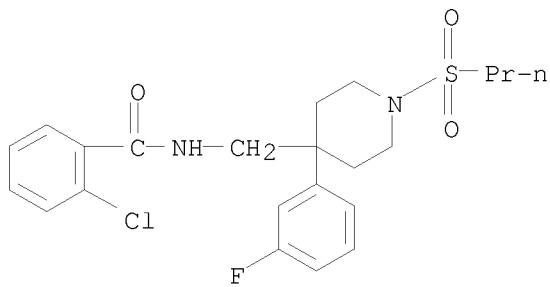
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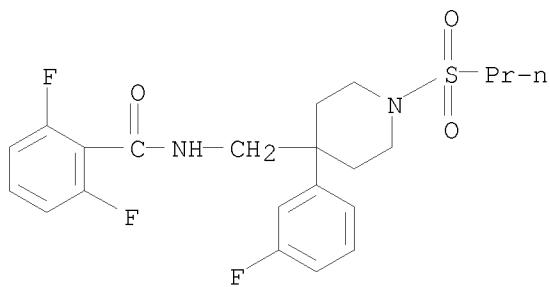
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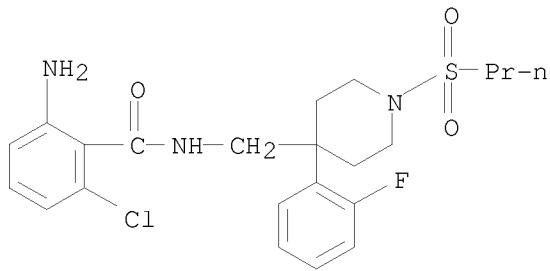
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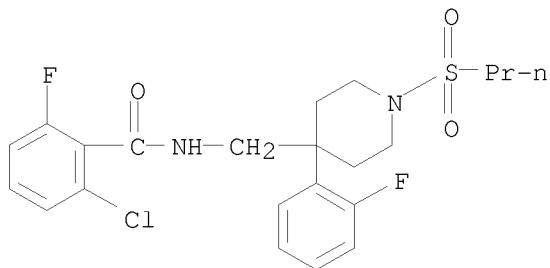
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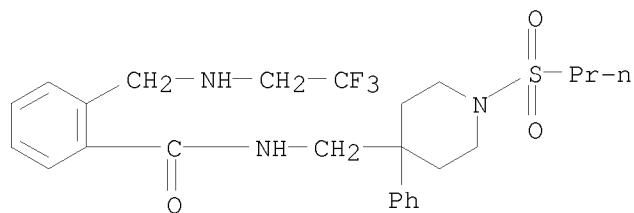


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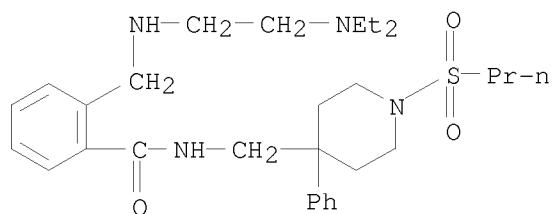
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RN 852029-68-6 CAPLUS  
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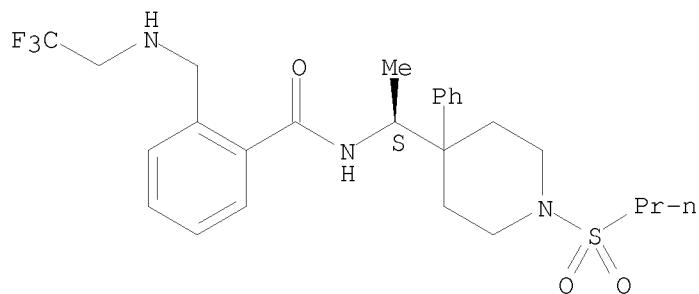


RN 852029-69-7 CAPLUS  
 CN Benzamide, 2-[[2-(diethylamino)ethyl]amino]methyl]-N-[[4-phenyl-1-(propylsulfonyl)-4-piperidinyl]methyl]- (CA INDEX NAME)



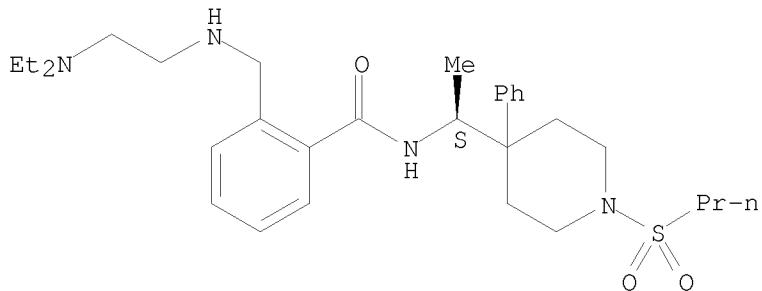
RN 852029-70-0 CAPLUS  
 CN Benzamide, N-[(1S)-1-[4-phenyl-1-(propylsulfonyl)-4-piperidinyl]ethyl]-2-[(2,2,2-trifluoroethyl)amino]methyl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 852029-71-1 CAPLUS  
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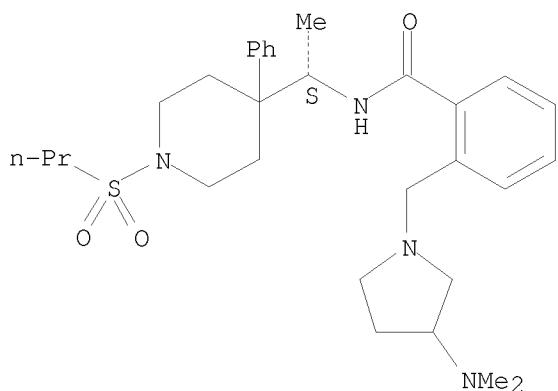
Absolute stereochemistry.



RN 852029-72-2 CAPLUS

CN Benzamide, 2-[3-(dimethylamino)-1-pyrrolidinyl]methyl]-N-[(1S)-1-[4-phenyl-1-(propylsulfonyl)-4-piperidinyl]ethyl]- (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:855758 CAPLUS

DOCUMENT NUMBER: 139:364829

TITLE: Preparation of heterocyclo inhibitors of potassium channel function

INVENTOR(S): Lloyd, John; Jeon, Yoon T.; Finlay, Heather; Yan, Lin; Beaudoin, Serge; Gross, Michael F.

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA; Icagen, Inc.

SOURCE: PCT Int. Appl., 330 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

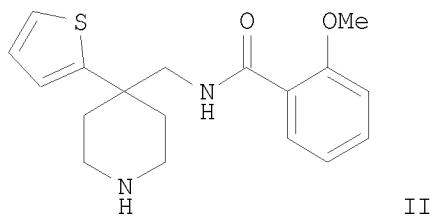
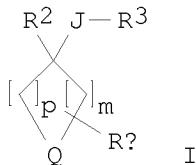
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003088908	A2	20031030	WO 2003-US11807	20030416
WO 2003088908	A3	20040527		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,				

KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,  
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,  
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
 AU 2003223651 A1 20031103 AU 2003-223651 20030416  
 EP 1501467 A2 20050202 EP 2003-719792 20030416  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK  
 JP 2005529114 T 20050929 JP 2003-585661 20030416  
 NO 2004004351 A 20041013 NO 2004-4351 20041013  
 PRIORITY APPLN. INFO.: US 2002-374279P P 20020419  
 WO 2003-US11807 W 20030416

OTHER SOURCE(S): MARPAT 139:364829

GI



AB The title compds. [I; m, p = 0-3 (provided that the sum of m and p is at least 2); Q = NR1, O, S, SO, SO2; R1 = H, C(:W)NR6R7, SO2NR6R7, OCONR6R7, etc.; R2 = heteroaryl, heteroarylalkyl, aryl, etc.; J = a bond, alkylene; R3 = R5, OR5, SO2R5, etc.; R5 = CN, heteroaryl, aryl, etc.; R6, R7 = H, alkyl, OH, etc.; W = (un)substituted NH, N(CO2H), N(CN), N(SO2H), CH(NO2); Rx = H, alkyl, hydroxyalkyl, aryl, etc.], useful as inhibitors of potassium channel function (especially inhibitors of the Kv1 subfamily of voltage gated K<sup>+</sup> channels, especially inhibitors Kv1.5 which has been linked to the ultra-rapidly activating delayed rectifier K<sup>+</sup> current IKur) in the prevention and treatment of arrhythmia and IKur-associated conditions, were prepared E.g., a multi-step synthesis of II [starting from bis(2-chloroethyl)amine], was given. Pharmaceutical composition comprising the compound I is claimed.

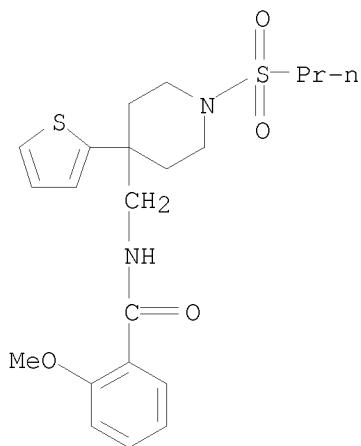
IT 619277-83-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of substituted piperidines as inhibitors of potassium channel function)

RN 619277-83-7 CAPLUS

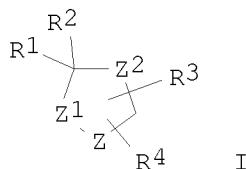
CN Benzamide, 2-methoxy-N-[(1-(propylsulfonyl)-4-(2-thienyl)-4-piperidinyl)methyl]- (CA INDEX NAME)



L4 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2000:314546 CAPLUS  
 DOCUMENT NUMBER: 132:321801  
 TITLE: Preparation of 4-[(benzoylamino)methyl]piperidines and analogs as potassium channel inhibitors  
 INVENTOR(S): Bao, Jianming; Kayser, Frank; Kotliar, Andrew; Parsons, William H.; Rupprecht, Kathleen M.; Claiborne, Christopher F.; Liverton, Nigel; Claremon, David A.; Thompson, Wayne J.  
 PATENT ASSIGNEE(S): Merck & Co., Inc., USA  
 SOURCE: PCT Int. Appl., 91 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

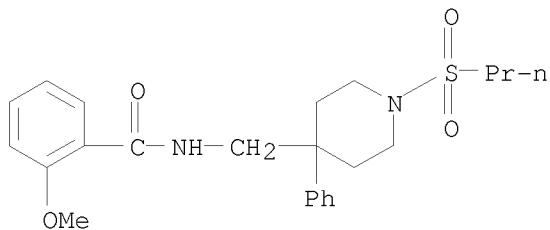
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000025786	A1	20000511	WO 1999-US25066	19991026
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6303637	B1	20011016	US 1999-422500	19991021
CA 2348735	A1	20000511	CA 1999-2348735	19991026
CA 2348735	C	20071211		
EP 1126849	A1	20010829	EP 1999-955169	19991026
EP 1126849	B1	20050309		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002528503	T	20020903	JP 2000-579227	19991026
AU 764515	B2	20030821	AU 2000-11338	19991026
AT 290382	T	20050315	AT 1999-955169	19991026
PRIORITY APPLN. INFO.:			US 1998-106292P	P 19981030
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OTHER SOURCE(S): MARPAT 132:321801  
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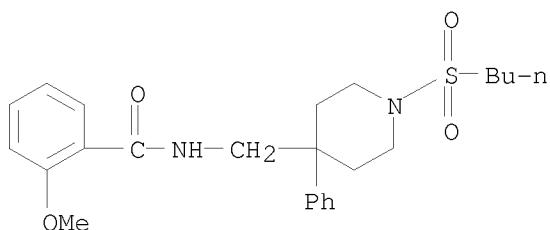


AB Title compds. [I; R1 = CH2NR10COR6; R2,R6 = (un)substituted Ph; R3,R4 = H, halo, alkyl, acyl, etc.; R10 = H, alkyl, acyl, etc.; Z = O, SOO-2, NR5; R5 = H, OH, alkyl, acyl, etc.; Z1,Z2 = bond, CH2, CH2CH2] were prepared as potassium channel inhibitors (no data). Thus, 4-cyano-1-benzyl-4-phenylpiperidine was reduced and the product N-acylated by 2-(MeO)C6H4COCl to give, after deprotection and Ac2O acylation, 2-(MeO)C6H4CONHCH2Z3Ac (Z3 = 4-phenylpiperidine-4,1-diyl).

IT 266341-42-8P 266341-43-9P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of 4-[(benzoylamino)methyl]piperidines and analogs as potassium channel inhibitors)  
 RN 266341-42-8 CAPLUS  
 CN Benzamide, 2-methoxy-N-[(4-phenyl-1-(propylsulfonyl)-4-piperidinyl)methyl]-  
 (CA INDEX NAME)



RN 266341-43-9 CAPLUS  
 CN Benzamide, N-[(1-(butylsulfonyl)-4-phenyl-4-piperidinyl)methyl]-2-methoxy-  
 (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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LOGOFF? (Y)/N/HOLD:y

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SINCE FILE

TOTAL

FULL ESTIMATED COST	ENTRY 64.75	SESSION 243.32
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-8.80	-8.80

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